



Designed Intelligence

Department of Industrial Design

Where innovation starts

Research group at department of Industrial Design

Designed Intelligence

The capacity group Designed Intelligence focuses on intelligent products and services that are characterized by three main aspects: sensor-based input, context awareness and adaptive signal processing, and actuator controlled output.

Focus of Designed Intelligence (DI)

We feel that the subject of designed intelligence is of great importance for future products, systems and services. That is why we have made this our main field of research. We will focus on intelligent products and services that are characterized by three main aspects: sensor-based input, context awareness and adaptive signal processing, and actuator controlled output. We investigate the software and hardware architecture, and we provide the necessary technical expertise to build such systems. Most of our researchers have a strong background in computer science, electrical engineering and interaction design.

Technology focused

The Designed Intelligence research group is explicitly involved in the integration of technology. Every group defines the targets related to each competency area. Our group is responsible for the end targets of the competency area technology integration, meta-competency design research and meta competency analyzing complexity', Rauterberg clarifies. Multidisciplinary approach 'Our research approach is a specific form of 'research through design', not 'design research' and not 'research for design'. In our opinion, industrial design research should be problem oriented and design-oriented, based on respect for people and society in general. It should also be of scientifically sound. Our idea of problem orientation is based on a strong conviction that products and services should address society's problems through technology. Compared to more traditional disciplines such as mechanical engineering, electrical engineering and computer science, this means that we try to pay attention to peoples' actual needs. Our research is not focused on one specific technology. We favor a multidisciplinary approach.

Main research questions

The group defines three main research questions. The first one is: how can we design useful and meaningful dynamic forms of artificial emotional intelligence? The second one is: how can we design useful and meaningful interactive forms of intelligent systems that provide pleasurable experiences and help generate and manage different intended user experiences? The third one is: how can we create new dynamic forms of interactive experiences that are more enjoyable than traditional user interfaces? These questions will all be tackled in various research projects. Objectively, the output consists of working prototypes demonstrating the concepts and guidelines, and papers in journals, conference proceedings and disciplinary journals. In addition, we are organizing several workshops, symposia and conferences.



Contact Information:
+31-40-247-5215
g.w.m.rauterberg@tue.nl

Matthias Rauterberg

Professor and Group Leader

Biography

G.W. Matthias Rauterberg received a B.S. in Psychology (1978) at the University of Marburg (Germany), a B.A. in Philosophy (1981) and a B.S. in Computer Science (1983), a M.S. in Psychology (1981) and a M.S. in Computer Science (1986) at the University of Hamburg (Germany), and a Ph.D. in Computer Science/ Mathematics (1995) at the University of Zurich (Switzerland).

He was a senior lecturer for 'usability engineering' in computer science and industrial engineering at the Swiss Federal Institute of Technology (ETH) in Zurich, where later he was heading the Man-Machine Interaction research group (MMI). Since 1998 he is fulltime professor for 'Human Communication Technology' first at IPO, Center for Research on User-System Interaction, and later at the Department of Industrial Design at the Eindhoven University of Technology (TU/e, The Netherlands). From 1999 till 2001 he was director of IPO. He is now the head of the Designed Intelligence research group at the Department of Industrial Design of the TU/e.

He was the Swiss representative in the IFIP TC13 on 'Human Computer Interaction' (1994-2002) and the chairman of the IFIP WG13.1 on 'HCI and Education' (1998-2004). He is now the Dutch representative in the IFIP TC14 on 'Entertainment Computing' and the founding vice-chair of this TC14 (since 2006). He is also the chair of the IFIP WG14.3 on 'Entertainment Theory' (since 2004). He was also appointed as visiting professor at Kwansai Gakuin University (Japan) (2004-2007). He received the German

GI-HCI Award for the best Ph.D. in 1997 and the Swiss Technology Award for the BUILD-IT system in 1998. Since 2004 he is a nominated member of the 'Cream of Science' in the Netherlands (the 200 top-level Dutch researchers) and amongst the 10 top-level TU/e scientists. He has over 250 publications in international journals, conference proceedings, books, etc. He acts also as editor and member of the editorial board of several leading international journals.

Publications

He is author of over 250 articles in the field of human-computer interaction, cognitive ergonomics, and usability engineering. He is also co-author of the book "Benutzer-orientierte Softwareentwicklung" ("User oriented software development", Teubner Press und vdf Press 1994), and author of the book "Ein Konzept zur Quantifizierung software-ergonomischer Richtlinien" (PhD, "A methodology to quantify usability criteria", IfAP-ETH Press 1995).

Technical Expertise

He is an expert in the field human-computer interaction, software ergonomics, usability engineering, and cognitive engineering. He is member of different professional organisations (IEEE, ACM, SI, GI, SIGCHI.NL). He was the chairman of the German SIG "Software Ergonomics", the chairman of the Swiss SIG "Software Ergonomics"; he is the chairman of the IFIP WG 13.1 "Education in Human-Computer Interaction" and the Swiss national representative in the IFIP TC.13 "Human-Computer Interaction".

Teaching Experience

Several courses (one day, one week, full-fledged lecture) in "Introduction to Human-Computer Interaction", "Design of Graphical User Interfaces", "Design of Multi-Media Interfaces", "User Centred Design", "Usability Engineering".

Current Interests

Design of the next generation of user interfaces ("beyond the desktop"), ubiquitous computing, adaptive systems, emotional design



Contact Information:
+31-40-247-5360
l.m.g.feijs@tue.nl

Loe Feijs

Professor

Biography

Prof. dr. ir. Loe Feijs (1954) studied Electrical Engineering at TU/e where he graduated in 1979 in the group Information and Communication Theory of Prof. Schalkwijk. Also in 1979 he worked at CSELT in Turin where he published with Chiariglione on two-component video compression techniques. After the obligatory Dutch military services he joined Philips Telecommunications Industry, later AT&T-Philips Telecom in the TSS16 group developing a new embedded computer and operating system for digital telephone exchanges. In 1984 Feijs joined the Philips Natuurkundig Laboratorium where he studied computer science and wrote a thesis on Formalized Design Methods using lambda calculus. In 1990 he obtained a Ph.D. in Computer Science of TU/e for this work, supervised by Prof. Kruseman Aretz and Prof. Bergstra. Working at Philips he conducted many case studies in formal methods in a variety of Philips Industry groups such as Industrial Automation, Consumer Electronics, Components (Cathode Ray Tubes), and Medical Systems. In 1994 Feijs was appointed part-time professor at TU/e Mathematics and Computer Science, working in the group of Prof Baeten, contributing to the formalization of the Message Sequence Chart language and software testing. He co-founded the Nationale Testdag. From 1998 to 2001 he was scientific director of the Eindhoven Embedded Systems Institute and in 2001 he was appointed full professor for the chair Industrial Design of Embedded Systems. From 2001 to 2006 he was Vice-dean of the newly founded department of Industrial Design with the task to build-up the research program. Having done this successfully Feijs turned his attention to Industrial Design teaching and research.

Publications

He is (co-) author of three books in the field of formal specification and design and numerous articles. Topics covered include formal specification languages (COLL, MSC, applications of Process Algebra), formal software testing, theory of modular software, calculus, component algebra), software architecture (relation-partition algebra), generative art (publications on Mondrian in *Mathematica e Cultura* and *Leonardo*) and product semantics (DeSForM conference series).

Technical Expertise

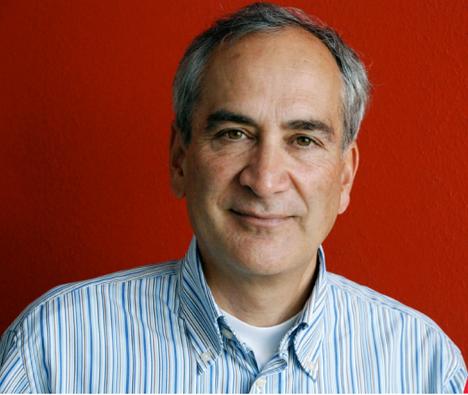
His technical expertise is fairly broad, reflecting Feijs' background in electrical engineering, and industrial working experience in telecommunication, formal methods, software architecture, software testing, later (at TU/e) in generative art and industrial design. Amongst the contributions to Software Architecture the design of RPA (Relation Partition Algebra) deserves special mention. The approach is based on Relation Algebra, and is now, more than 15 years after its definitions still used in Software Architecture by for example the VU (Free University of Amsterdam), the Fraunhofer Institute, NASA and the FDA. The seminal paper is: *Science of Computer Programming*, Volume 33, Issue 2, February 1999, Pages 163–212, Relation partition algebra — mathematical aspects of uses and part-of relations by Feijs, Van Ommering. At present Feijs is developing additional new expertise in Creative Programming. Students are also welcome to consult Feijs on matters of electronics, creative programming and product semantics.

Teaching Experience

Already in 1984 Feijs has taught computer programming and software engineering in Philips. From 1994 onwards he taught formal specification and software lifecycle models in the TU/e OOTI program. In the department of industrial design he acts as an assignor on electronics, programming, mathematics and product semantics. He coaches in the theme Comfort and Bonding in Healthcare. In ID at TU/e he is responsible for competency area two (Integrating Technology).

Current Interests

His present professional interests cover four areas in industrial design. These include two disciplinary areas and two application oriented areas. The first disciplinary area is: Product Semantics, trying to contribute to the field by bringing insights of computer language semantics to the industrial design community. The current research has the working title "commutative product semantics". The second disciplinary area is **Creative Programming**. It includes working creatively and geometrically with languages such as Mathematica and Processing and embedded systems such as Arduino. This is relevant for graphic design, wearables, and for the formgiving of biofeedback. The first application oriented area is Neonatology. Research topics include comfort and bonding for neonates. The second application oriented area is Biofeedback.



Contact Information:
+31-40-247-2539
s.bambang.oetomo@tue.nl

Sidarto Bambang Oetomo

Professor

Biography

Prof. Dr. S. Bambang Oetomo has been working as pediatrician-neonatologist and was professor of Neonatology at the University of Groningen. At that position he was involved with the medical curriculum. His research was focused on causes and treatment of neonatal lung disease. Since 2003 he is working at the Máxima Medical Center in Veldhoven. As part of a collaboration between the Máxima Medical Center and the TU/e he was appointed as professor at the Faculty of Industrial Design in 2007. The Faculties of Physics and Electro technical Engineering also participate in this collaboration. The research theme in "Monitoring and Modeling in Perinatology". Perinatology is the subject of gynecologists, that treat the women with a complicated pregnancy and the neonatologists that treat the sick newborn infants.

Publications

Bambang Oetomo is author of about 50 publications including papers on neonatology and more recently papers on signal analysis of physiological parameters of patients.

Current Interests

His work at Industrial Design aims at research into alternative monitoring devices for sick newborn infants and the design of high fidelity mannequins for the multi disciplinary training of doctors, midwives and nurses in hospitals.



Contact Information:
+31-40-247-3563
e.i.barakova@tue.nl

Emilia I. Barakova

Assistant Professor

Biography

Dr. Ir. Emilia I. Barakova is affiliated with the Department of Industrial Design (UD1) at the Eindhoven University of Technology, The Netherlands, and held a Visiting Researcher position at RIKEN Brain Science Institute in Japan. She has: Masters Degree in Electronics and Automation from Technical University of Sofia (Bulgaria) and PhD in Mathematics and Physics from Groningen University (The Netherlands, 1999). Barakova has worked at different research institutes: the RIKEN Brain Science Institute (Japan), the GMD-Japan Research Laboratory (Japan), Groningen University (The Netherlands), the Eindhoven University of Technology (The Netherlands), Starlab (Belgium), and the Bulgarian Academy of Science. She has closely collaborated with Honda Research Institute, Fraunhofer AiS (Germany), Philips Research, Noldus, and TiViPE (The Netherlands), and ARC Cambridge (UK). She has been an interim Scientific director of GMD Japan research laboratory, a Head of the Robotics Lab at ID department, project leader of several multidisciplinary projects, and coordinated the Social robots and Humanoids educational and research team at ID department of TU/e. Barakova is an Associate editor of Journal of Integrative Neuroscience, and Personal and Ubiquitous Computing and has organized several international conferences and has served as a program chair of IEEE and ACM conferences. Barakova is an author of over 110 peer reviewed papers.

Publications

She is author of over 80 articles in the field of neuro- and behavioral robotics, human-computer interaction, artificial intelligence <http://www.idemployee.id.tue.nl/e.i.barakova/>. She is also author of the book

“Learning Reliability: a study on indecisiveness in sample selection .

PrintPartners Ipskamp B.V. ISBN 90-367-0987-3, 1999 and editor of the proceedings volumes: Masumi Ishikawa, Shuji Hashimoto, Marcin Paprzycky, Emilia Barakova, Mario Koepen, David Corne, Proceedings of Forth International Conference on Hybrid Intelligent Systems 2004, IEEE Computer Society Press, IEEE Computer Society Order Number P2291, Library of Congress Number 2004116420, ISBN 0-7695-2291-2, Janienke Sturm, Tilde Bekker, Emilia Barakova, Design for Social Interaction through Physical Play, October 2008, ISBN: 978-90-386-1458-8, 1. E. I. Barakova, B. de Ruyter, and A. Spink (Eds.), Proceedings of the 7th International Conference on Methods and Techniques in Behavioral Research. ACM, New York, NY, USA, 2010.

Technical Expertise

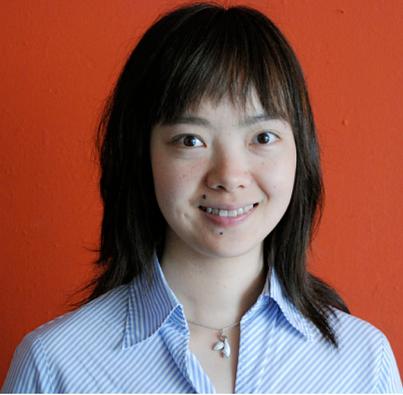
She is an expert in the field of social robotics, neurorobotics, artificial learning methods, and human-centered design

Teaching Experience

Current courses and projects: Neurorobotics, Learning objects, Intelligent products.

Current Interests

Currently Emilia Barakova is working on human-robot social interaction, robotics for behavioral training of autistic children and on prediction of conflicts in social groups, which includes measuring, and analyzing human behavior and interaction, use of machine learning and brain-inspired computational models to create robot interactive behaviors and human-centered design to design interactive scenarios that are based on advanced therapeutic practices. She works in highly multidisciplinary teams that include human-robot interaction specialists, designers, therapists, researchers in autism and stroke rehabilitation, robot developers, and computer scientists.



Contact Information:
+31-40-247-3563
w.chen@tue.nl

Wei Chen

Assistant Professor

Biography

Dr. Wei Chen obtained her Ph.D. (2007) from the University of Melbourne, Australia, in performance monitoring and impairment mitigation for communication systems, the M. Eng. (2002) and B. Eng. (1999) from Xi'an Jiaotong University, China, in telecommunication systems and smart sensors. She worked at Bell Laboratories Germany, Alcatel-Lucent, Stuttgart, Germany and the Department of Electrical & Electronics Engineering, University of Melbourne, Australia. Since July 2007, she has been an Assistant Professor at the Designed Intelligence Group, Department of Industrial Design, Eindhoven University of Technology, the Netherlands. She is the chair of the theme Comfort and Bonding in Health Care in the department.

Publications

She is author of more than 60 papers in journals and conference proceedings in the areas of smart sensor systems, ambient intelligence, wearable sensors, medical monitoring, signal processing, and telecommunications. She has chapters in the books "Intelligent and Biosensors", "Handbook of Research on Developments in e-Health and Telemedicine: Technological and Social Perspectives", IGI Global, Handbook on AAL applied to Healthcare, Well-being and Rehabilitation; and Smart Textiles for Protection. She is an editor of the book entitled: "Neonatal Monitoring Technologies: Design for Integrated Solutions".

Technical Expertise

Her expertise includes wearable sensor integration for medical applications, sensor systems for ambient intelligence, performance monitoring, telecommunication systems, signal processing and intelligent system design. She is member of IEEE and member of IEEE/LEOS GOLD Committee.

She is in the advisory board for IEEE Prognostics and Health Management Conference (PHM2010, 2011, and 2012) and Scientific Advisory Board, the Slovakian National Centre of Telemedicine Services (NCTS). She is the Technical Program Co-chair for International Conference on Advanced Infocomm Technology (ICAIT 2010 & 011) and in the Program Committee for 6th International Conference on Ubiquitous Computing and Ambient Intelligence and 4th International Workshop on Ambient Assisted Living (UCAmI & IWAAL 2012). She is an associate editor of IEEE Transactions on Information Technology in Biomedicine.

Current Interests

Her research interests include smart sensor systems, medical monitoring system design using wearable sensors, neonatal monitoring, wireless body area networks, ambient intelligence, performance optimization, signal processing, intelligent system design and telecommunications.



Contact Information:
+31-40-247-4981
f.l.m.delbressine@tue.nl

Frank Delbressine

Assistant Professor

Biography

Dr. Frank Delbressine obtained his Ph.D.(1989) from the Eindhoven University of Technology, on the Integration of Design and Manufacturing. After his Ph.D. he worked at TNO, the Dutch organization for applied science. Afterwards he returned to the Eindhoven University as a researcher in Universal Manufacturing machines. In 1996 he started working in Precision Engineering at the Eindhoven University of Technology. He is currently an assistant professor in the Department of Industrial Design, The Netherlands.

Publications

Dr. Frank Delbressine is (co)author of about 45 papers in International journals and conference proceedings. He was co-promotor of 4 Ph.D. thesis.

Technical Expertise

Frank Delbressine's expertise includes Mechanical Design & Engineering, Manufacturing, Integration of Design and Manufacturing, Design for Assembly, Precision Engineering, Mechanical Metrology, Vibration Analysis and Medical Simulation. He is a member of CIRP (The International Academy for Production Engineering), a Member of the international Society for Simulation in Healthcare (SSH).

Teaching Experience

Frank is currently teaching courses for master and bachelor students. Topics include Mechanical Design and Engineering for Industrial Design, Mechanics, Rapid Prototyping, Material Behavior, Manufacturing Technology, Lego Beyond Toys, Control. He has taught courses in Precision Engineering, Metrology, accuracy of machines and Integration of Design and Manufacturing. Frank has a broad experience in Mechanical Design and Engineering.

Current Interests

Frank's current interests are the application of Mechanical Design and Engineering to Industrial Design and research in Medical simulation and Medical technology.



Contact Information:
+31-40-247-8331
m.funk@tue.nl

Mathias Funk

Assistant Professor

Biography

Dr. Mathias Funk received his MSc degree in Computer Science from RWTH Aachen University (2006) and afterwards pursued a PhD in Electrical Engineering at Eindhoven University of Technology, which was awarded in 2011. Currently, he continues his research as a Postdoctoral Researcher in the Designed Intelligence group of the Industrial Design department. He is co-founder of UXsuite, a high-tech spin-off, which commercializes the software toolset he developed during his PhD project and which received multiple STW valorization grants. Apart from that he has been Research Intern at the ATR, Kyoto in 2004/2005 and Visiting Researcher at Philips Consumer Lifestyle, Eindhoven in 2007/2008. He is member of the ACM SIGCHI.

Publications

He has authored several conference and journal publications in the field of human-computer interfaces, user experience, remote data collection, and software modeling. His PhD thesis was about "Model-driven Design of Self-observing Products".

Technical Expertise

He has years of experience in software architecture and design, engineering of

distributed systems, and web technologies. Further, he is knowledgeable about domain-specific languages, software modeling, and code generation. Finally, sound and video processing systems, information visualization and rapid prototyping are taking a large part in his work. In the last two years, he has been involved extensively in the business side of innovation, the transfer of research to commercial products.

Teaching Experience

He has been coaching Bachelor, Master, and Post-Master students from computer science and electrical engineering to industrial design as individuals or in small groups for the last three years. He enjoys to speak and to present to larger audiences, both of students, academics, and professionals.

Current Interests

Design theory and processes, remote data collection, user experience evaluation, privacy issues, adaptive or cognitive systems, the Internet of Things, and rapid prototyping are among his research interests. He has been an active musician for the last 15 years, and is very interested in music, art, architecture, and design in particular.



Contact Information:
+31-40-247-8331
j.hu@tue.nl

Jun Hu

Associate Professor

Biography

Dr. Jun Hu is a Senior Member of ACM, currently an Associate Professor in Design Research on Social Computing at Department of Industrial Design, Eindhoven University of Technology (TU/e), an Adjunct Professor at School of Digital Media, Jiangnan University. He is currently the co-chair of the working group “Art and Entertainment” of IFIP (International Federation for Information Processing) TC14 (Technical Committee on Entertainment Computing). He is the coordinator of the TU/e DESIS Lab in the DESIS network (Design for Social Innovation and Sustainability). He serves the editorial boards for several international journals. He has more than 130 peer reviewed publications in conferences and journals in the field of HCI, industrial design, computer science and design education.

Dr. Jun Hu has a PhD in Industrial Design and a Professional Doctorate in User-system Interaction, both from TU/e. He has also a B.Sc in Mathematics and an M.Eng in Computer Science. He is a System Analyst and a Senior Programmer with the qualifications from the Ministry of Human Resources and Social Security, and the Ministry of Industry and Information Technology of China. From 2006 to 2007 he served as the Secretary-General for The Association of Chinese Scholars and Engineers in the Netherlands (VCWI) and from 2008 to 2009 as the Chairman.

Publications

He has over 130 peer reviewed publications in the field of software architecture, human-computer interaction, formal methods and scientific visualization. His PhD thesis was about a “distributed architecture for enriching media experiences in home theatres”; his post-master’s work “Distributed Interfaces for a Time-based Media Application” was nominated for the OCE prize in 2001. His master thesis “On content based retrieval in medical image databases” was awarded the top prize at the Northwest University in 1999.

Technical Expertise

He is an expert in the fields of software design, human computer interaction, interaction design, distributed multimedia, databases and web technologies.

Teaching Experience

He has the Basic Teaching Qualification (BKO). Lectures on creative programming, software design, interaction design, graphical user interfaces and formal specification.

Current Interests

Design research on Social Computing; New forms of interfaces; ubiquitous computing and ambient intelligence; distributed interactive media; ontology and semantic web.



Contact Information:
+31-40-247-3497
p.j.f.peters@tue.nl

Peter Peters

Research Fellow

Biography

Dr. Ir. Peter Peters finished his education in electronics at the Eindhoven University of Applied Science in 1980. After an 8 year period at Philips Telecommunication Industries in Hilversum, as a software designer of business telephony exchanges, designing, implementing and testing software in various programming languages, he moved to the department of Computing Science and Mathematics at the Eindhoven University of Technology in 1988. Besides software support of the Formal Methods research group (building implementations of the research results) he also studied Computing Science there, and graduated in 1999. After a 2.5 year period at the Eindhoven Embedded Systems Institute performing research on remote monitoring and control, he joined the Designed Intelligence group of the department of Industrial Design as researcher and lecturer. In 2014 he finished his PhD on the design of a simulator of a premature baby.

Publications

Peter is author and co-author of several articles in the field of remote monitoring and

control, computer-game play and interventions, and medical simulation.

Technical Expertise

Peter's expertise is in the areas of electronics and computing science, specifically where these two areas meet. He is fluent in many programming languages and has a lot of practical experience in both electronics design and implementation (HF and VHF, digital electronics, microcontroller systems) as well as in software design and development.

Teaching Experience

Starting in 1999, giving several lectures and workshops on remote monitoring and control at the EESI, he continued lecturing assignments at Industrial design that combine the expertise mentioned above ("Internet protocols", "Java in control", "From Processing to JAVA", "Stacked actions", "Creative apps") and currently lectures the assignments: "Creative Programming", "Creative Electronics" and "Cross Section Integrating Technology". Besides that he is frequently consulted as an expert on electronics and software related issues. Besides these expertise related education activities, his education interest is also focused on the medical application domain, specifically where users and technology meet.

Current Interests

Software/hardware interfacing, design of simulation systems for medical training, combining gained design knowledge with his expertise areas.



Contact Information:
+31-40-247-3065
e.d.v.d.spek@tue.nl

Erik van der Spek

Assistant Professor

Biography

Dr. Erik van der Spek is an assistant professor of Game Design in the Designed Intelligence group. He has a background in computer science (MSc Games and Media Technology) and cognitive psychology (PhD). His research is mainly concerned with experimentally testing how game design paradigms, extant or novel, influence the engagement and cognition of players, and how this can be used to make games more effective in engendering their desired experience. Past games research includes the affective correlates of cybersickness and systematic experiments into how one should design a game to optimally stimulate surface and deep learning, with the self-made game Code Red Triage. Currently, he is researching persuasive games, design guidelines for engagement, Kinect games for motor skills and games for systems thinking, among others.

Publications

Erik has published several conference and top journal articles on topics such as game and level design, game development, cybersickness, psychometrics and the role of affect and cognition in virtual environments. His dissertation is called “Experiments in serious game design: a cognitive approach”.

Technical expertise

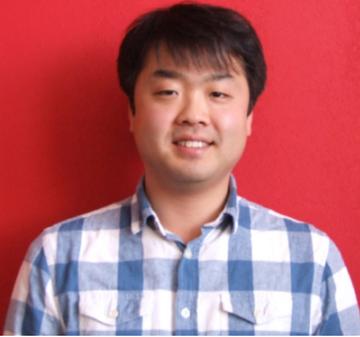
Erik’s main areas of expertise are game design, human computer interaction, cognition, engagement, instructional design, usability engineering and game technology.

Teaching experience

Erik coaches students in playful interaction design. He gives lectures on Object-Oriented modeling and programming, and coordinates and gives lectures on the Basic Course elective Design for Games and Play. Past experience also includes the Basic Course Design, and lectures on game design, e-learning, serious games, usability engineering and intelligent systems.

Current Interests

Being an avid gamer for as long as he can remember, Erik is interested in everything having to do with games both professionally and personally. He is especially interested in the way new interactive media communicate ideas or persuade the player, tell stories and engender emergent experiences through implicit means such as interaction design and the layout of game worlds.



Contact Information:
M.Kim@tue.nl

Min-Gyu Kim

Postdoc

Biography

Dr. Min-Gyu Kim received the B.E. in Electronics Engineering and M.E. in Mechanical Engineering from Korea Aerospace University, South Korea in 2003 and 2005 respectively. He pursued his PhD in Intelligent Interaction Technologies at University of Tsukuba, Japan in 2012. He has worked as a research engineer at Robotics Research Center at Korea Aerospace University and participated in projects on development of capsule endoscopy and quadruped robot from 2007 to 2009. From 2012 to 2013, He was a senior researcher at Interaction Science Research Institute at Sung Kyun Kwan University, South Korea and did his researches on designing robot-child interaction in classroom from cognitive psychological perspective and measuring haptic/touch experience on mobile device through

psychophysical experiment.

Publications

Several conference and journal publications on mainly human-robot interaction: deceptive interaction in game, musical interaction and design of interaction scenario. His PhD dissertation is 'A Study on Social Interaction with Card Playing Humanoid Robot'.

Technical experience

Electronics/mechanical design and engineering as well as software development. He is also an expert in human-robot interaction and usability engineering.

Current Interests

human-robot interaction design and analysis and assistive, therapeutic, educational use of robots.



Contact Information:
i.b.i.ayoola@tue.nl

Idowu Ayoola

Ph.D. Candidate

Biography

Idowu Ayoola is a Phd candidate at the Designed Intelligence group, TU/e where he is interested in developing medical devices for homecare. He commenced his study in Industrial Design, Sep. 2004 at the Federal University of Tech. Akure, Nigeria, where he focused his skills in crafting, graphics design and fundamental sciences. He moved to TU/e, the Netherlands in 2008 to complete his bachelor study in the area of intelligent products and systems after which he became a member of the honors program. Idowu obtained his bachelor degree in Sep. 2010 and his Master's degree in Industrial Design in Sep. 2012. He worked for about two years as an intern at Philips as a developer of several respiration sensory modalities using camera and accelerometer. He also co-initiated

Oohoo.nl, an award winning social-design.

Technical Expertise

Design for Healthcare, Social-design, Interaction-design

Funding

Funding organization: NWO/ZonMW (2nd money stream)



Contact Information:
c.h.ayuningtyas@tue.nl

Chitra H. Ayuningtyas

Ph.D. Candidate - ICE EMJD Program

Biography

Chitra Hapsari Ayuningtyas received her bachelor degree in Informatics from Bandung Institute of Technology, Indonesia. Afterwards, she joined the Erasmus Mundus European Master of Informatics (EuMI) program, where she earned a degree in Informatics from University of Trento, Italy and in software system engineering from RWTH Aachen, Germany. She worked as a research assistant in several health informatics projects at the Biomedical Engineering Research Group, Bandung Institute of Technology, from 2009 to 2011. Since 2011 Chitra is working as a PhD candidate at the Designed Intelligence research group as a part of Erasmus Mundus Joint Doctorate Program in Interactive and Cognitive Environments (ICE PhD) in partnership with University of Klagenfurt. Her research deals with activity recognition from ambient sensor monitoring in a smart environment with multiple residents.

Technical Expertise

Machine learning, data mining, programming, software development

Funding

Smart home technology, pattern recognition, monitoring system, visualization



Contact Information:
M.W.Baig@tue.nl

Mirza Waqar Baig

Ph.D. Candidate - ICE EMJD Program

Biography

Mirza Waqar Baig received his degree of Bachelors in Electrical Engineering from Pakistan (2007). He then started working in telecommunications systems and worked for a year and after worked on control systems in a government project. He obtained his master degree from South Korea in 2011. During his stay in Korea, he worked on several projects with Samsung and ETRI. He started his PhD in 2012 under the Erasmus Mundus Joint Doctorate program ICE. He is working on Modelling and controlling Emotions in Crowds. He worked in UNIGE, Italy in Electronics Engineering department and now a days working in Designed Intelligence group at TU/e. He is also the official student representative of EMJD ICE program for the consecutive two years.

Technical Expertise

Image Processing, Computer Vision, Affective Computing.

Funding

Mirza Waqar Baig is working under grant of Erasmus Mundus Joint Doctorate in Interactive and Cognitive Environments (2012-2015)



Contact Information:
+393894837382
abetan16@gmail.com

Alejandro Betancourt

Ph.D. Candidate - EMJD ICE Programme

Biography

Alejandro Betancourt is a Mathematical Engineer, MSc in Applied Mathematics and currently PhD student of Interactive and Cognitive Environments. Between 2007 and 2013 Alejandro worked in Machine Learning and Geocomputation methods applied to spatial analysis and spatial economics with the research group "RiSE" of EAFIT University. In 2013 Alejandro became PhD fellow of the Erasmus Mundus program in Interactive and Cognitive Environments between the University of Genova (Italy) and the Eindhoven University of Technology (The Netherlands). Alejandro is working nowadays in the development of Machine Learning methods to process First Person Vision (Videos) to endow smart devices to understand more about the user of mobile cameras.

Technical Expertise

Software Developing, Machine Learning, Artificial Intelligence, Spatial Analysis, Video Analysis.

Current Interests

Develope new ideas and increase the capability of the computer to understand real world situations.

Current Interests

Alejandro is author of different publications in Video Analysis, Machine Learning, Cognitive Radios and Geocomputation. For a detailed list of the published work please refer to his linkedin profile <http://nl.linkedin.com/in/abetan16/>

Funding

Erasmus Mundus Joint Programme in Interactive and Cognitive Environments



Contact Information:
K.Biljman@tue.nl

Katarina Biljman

Ph.D. Candidate - EMJD ICE Programme

Biography

Katarina Biljman graduated from Moscow State Conservatory "Tchaikovsky", Russian Federation (2009) after completing a five year State Educational Program, with a Specialization in Piano Performance. Upon invitation of Professor Emeritus Arie Vardi in 2010 she continued her studies at Tel Aviv University, The Buchmann-Mehta School of Music, where she obtained another two Master Degrees - the first one with Major in Piano performance (2012), and the second one, Magna cum laude with Major in Chamber Music (2013). During her studies Katarina was awarded Prize for Extraordinary achievements in Culture and Art by Government of Serbia, Scholarship for Studies at Tel Aviv University by Government of Israel, and Scholarship for Short term studies at Heinrich Heine University by Government of North Rhine-

Westphalia. In 2013 she was employed by EMJD ICE Program as a PhD candidate at TU/e and UPC Vilanova. Katarina is a winner of multiple National and International Competitions in Piano and Chamber Music Performance.

Current Interest

Her current research interest lies in influence of Music on Cognition, namely in linking Music, Psychology and Philosophy in order to achieve more effective results in Music Therapy.

Teaching Experience

Katarina was holding a post of Teacher of Piano in High School for Music "Vatroslav Lisinski" in year 2009/2010.

Funding

Erasmus Mundus Joint Doctoral Programme in Interactive and Cognitive Environments (EMJD ICE)



Contact Information:
M.Brandao.Carvalho@tue.nl

Maira B. Carvalho

Ph.D. Candidate - ICE EMJD Program

Biography

Maira B. Carvalho received her Bachelor's degree in Communications (Advertising and Journalism) from the University of Brasilia, Brazil, in 2004. Later, in 2011, she received her M. Sc. degree in Interactive Technology from the University of Tampere, Finland, where her work and research focused on the development of applications for low literacy users. She has more than eleven years of experience as information architect, interface designer and web developer. She has worked for companies and organizations such as WWF-Brazil, Agência Click, Brazil's National Supply Company (CONAB), and at the headquarters of the International Labour Organization (ILO), in Geneva, Switzerland. Since 2012, she is a PhD candidate at the University of Genova, Italy, and at TU Eindhoven as part of the Erasmus Mundus Joint Doctorate in Interactive and Cognitive

Environments (ICEPhD).

Technical Expertise

human-computer interaction, games, technology for education, information architecture, user interface design.

Current Interests

human-computer interaction, user-centered design, serious games, technology for education, technology for development (ICT4D), natural language processing, affective computing.

Funding

Erasmus Mundus Joint Doctoral Programme in Interactive and Cognitive Environments (EMJD ICE)



Contact Information:
K.A.Davis@tue.nl

Kadian Davis

Ph.D. Candidate - EMJD ICE Programme

Biography

Kadian Davis holds a Bachelor of Science in Computer Science from the University of the West Indies (UWI) and a Master of Philosophy in Computer Science from UWI. During her tenure as a post graduate student, Kadian extended the Support Kit for Animation (SKA) algorithm visualization to support red-black tree manipulations. This was delivered in a scaffolding-type algorithm visualization that has been used to help a number of students to learn and understand the theory of red-black trees. In May 2013, she received the Erasmus Mundus Doctorate Scholarship from EACEA, and was admitted to the Eindhoven University of Technology (TU/e) and the University of Genoa (UNIGE). Kadian is currently working as a PhD candidate in the faculty of Industrial Design and investigates the possibilities of applying the theme of design for social

interaction to unconscious social care for the elderly.

Technical experience

Human Computer Interaction, User Centred Design, Algorithm Visualization

Funding

Kadian is part of the Erasmus Mundus Doctorate Programme in Interactive and Cognitive Environments (ICE PhD).



Contact Information:
R.Joshi@tue.nl

Rohan Joshi

Ph.D. Candidate

Biography

Rohan Joshi was born in 1990 in Delhi, India. He graduated with a four year Bachelor's degree in biomedical engineering from Manipal University, India in 2011. He continued his education by pursuing a master's degree in the same field from KU Leuven, Belgium and graduated magna cum laude in 2014. Since October 2014, he is carrying out research towards his Ph.D. in the area of predictive monitoring of clinical and neurological outcomes in neonates. This research is carried out in close collaboration with three parties- Eindhoven University of Technology, Philips Research and Máxima Medisch Centrum. This project aims at using multidisciplinary engineering skills applied to the clinical problems faced by neonatal

populations with the aim of developing tools for early detection and prediction of morbidities. Early intervention in neonates not only holds the potential to have a huge impact over the course of their lives but can also reduce the financial, physical and emotional toll on the families. achieving certain types of user experiences with mixed reality.

Technical experience

Biomedical engineering, signal processing & data processing.

Funding

Impuls



Contact Information:
+31-62661 3816
j.karjanto@tue.nl

Juffrizal Karjanto

Ph.D. Candidate

Biography

Juffrizal Karjanto received his Bachelor Degree in Mechanical Engineering from The Ohio State University (OSU), Ohio, USA in 2008. Later in 2012, he completed his Master of Innovation and Engineering Design from Universiti Putra Malaysia (UPM), Malaysia. Upon completion of his study, he has promoted to lecturer since 2012. To date, he has been supervising 10 final year undergraduate students. In addition, he had been involved in 5 research projects (2 principal researchers and 3 co-researchers) at both university and national level. His publications include 3 journals and proceedings in both ISI and Scopus indexed articles. More than 10 conferences, seminars, workshops and courses at both international and national levels have been attended. On top of that, 1 intellectual property was

officially registered and secured. He is an active member in INNOMA Research Group at the Centre for Advanced Research on Energy (CARE), UTeM. Currently, he is pursuing his Ph.D study specifically in Autonomous Vehicle and society at Eindhoven University of Technology, Netherlands.

Technical Expertise

CAD (Solidworks, CATIA, AutoCAD),
Engineering Design; Product Development

Current Interests

Autonomous vehicle, HMI, Automotive safety and comfort

Funding

Malaysian Ministry of Education (KPM) and Universiti Teknikal Malaysia Melaka (UTeM)

Where innovation starts



Contact Information:
s.kheirandish@tue.nl

Kheirandish Shadi

Ph.D. Candidate

Biography

Shadi Kheirandish studied Industrial Design at the Art University of Tehran and graduated her bachelor in 2005 in which she achieved the First Rank in this level and was admitted for Master's Degree without passing nationwide university entrance examination. During her masters at the faculty of Industrial Design she further focused towards Cultural Design and did study on the predominant taste of society of Tehran, a research on consumption, and a research on conceptual furniture. She concluded her master in August 2008 with her project Designing Sofa Furniture using Real Concepts, with which she won the Research Week Award for the best thesis in industrial design from Art University of Tehran January 2009. She achieved the First Rank in Master's Degree Program in Industrial Design as well.

Current Interests

Shadi is currently her studying as a PhD candidate at the faculty of Industrial Design and researches how a designer can transfer meaning from one culture to another culture via using product, to preserve human values and valuable behaviors which is supervised by prof.dr. G.W.M Rauterberg, dr.ir. S.A.G. Wensveen, and dr. M. Funk.

Funding

Scholarship



Contact Information:
D.R.Kommers@tue.nl

Deedee Kommers

Ph.D. Candidate

Biography

Deedee Kommers studied Medicine at Utrecht University and graduated in February 2013. During her study she had two special interests, being Pediatrics and research. Talking to doctors about those interests led her to meet Professor Dr. Oei, gynecologist at the Maxima Medical Centre Veldhoven (MMC) and part-time professor at the faculty of Electrical Engineering and Professor Dr. Bambang Oetomo, neonatologist at MMC and part-time professor at the faculty of Industrial Design. Meeting them made a combination of both her interests possible. As part of the Impuls Program, the MMC and TU/e collaborate (together with Phillips) to improve Perinatal Health Care. One Perinatal Health Care topic is Family Bonding in the Neonatal Intensive Care Unit (NICU). Designers and technicians work on that topic, to invent possible designs / technology to improve Family Bonding.

Current Interests

Since September 2013, Deedee is now working on that topic from the medical point of view. What is bonding exactly? What are parameters to measure whether bonding is improving? What are the consequences of suboptimal bonding? By answering those questions, and by testing and validating designs, applicability will hopefully increase, new design opportunities will arise and Family Bonding in the NICU might be improved.

Funding

Deedee is funded within the Impuls Program (3rd money stream).

Where Innovation starts



Contact Information:
v.lim@tue.nl

Veranika Lim

Ph.D. Candidate - EMJD ICE Programme

Biography

Veranika Lim received a BSc in Psychology (2006), a MSc in Cognitive Psychology (2007) and a MSc (by research) in Cognitive Neuroscience (2010) from Leiden University, the Netherlands. She was also a student for 1,5 years at the Industrial Design department of the University of Delft, Netherlands.

In 2009, she worked at the Flight Deck Display Research Lab (NASA FDDRL) in California for a thesis on 3D display effects on Weather Avoidance.

After graduation she stayed at the FDDRL as a research assistant for 6 months. Afterwards, she became a research assistant in Service Design at the Madeira Interactive Technologies Institute in Portugal, a collaboration between the University of Madeira and Carnegie Mellon, USA. In December 2012, Veranika

started a 3-years joint PhD program between Eindhoven University of Technology and University of Genova.

Expertise

Fundamental research, experimental design, human factors, service design, human computer interaction and data analysis.

Current Interests

Understanding how social influence strategies can be applied to food waste prevention in households. Furthermore, her interest lies in psychological concepts like perception, attention, awareness and values and its effects on the decision making around food waste behavior.

Funding

EMJD ICE / FPA n° 2010- 2012



Contact Information:
p.gongsook@tue.nl

Pongpanote Gongsook

Biography

Pongpanote Gongsook has achieved his Bachelors and Masters in Computer Science from Ubon Ratchathani University and Thammasat University in 2002 and 2006 respectively. He is interested in utilizing computers for entertainment and educational purposes. His Master thesis contains the study of attention techniques in multimedia learning.

In January 2012, he has received the Erasmus Mundus Doctorate Scholarship from EACEA, and got admitted to the Eindhoven University of Technology (TU/e) and the University of Genoa (UNIGE).

Pongpanote is currently working as a PhD candidate at the faculty of Industrial Design and investigates the possibilities of using

virtual reality to manipulate the perception of time in the application area in which children with a learning and behavior disorder can explore the concepts of time.

Technical Expertise

Human Computer Interaction, Attention, Time Perception

Funding

Pongpanote is part of the Erasmus Mundus Doctorate Programme in Interactive and Cognitive Environments (ICEPHD), in 'Time Simulator in VR' project.

Contact Information:
SQU@tue.nl

Shi Qiu

Ph.D. Candidate

Biography

Shi Qiu received a BA in Industrial Design (2006) from East China University of Science and Technology (ECUST), a MA in Industrial Design (2009) from Shanghai Jiao Tong University (SJTU) and a MD in Interaction Design (2012) from Hong Kong Polytechnic University (HKPU).

Shi had nearly five-year working experience in Chinese industry: a senior interaction designer in Ctrip.com (2013-2014), an interaction designer in Chinese top one search engine company: Baidu.com (2011) and a user experience designer in Chinese top one e-commerce company: Alibaba Group (2009-2011), as well as an interaction design intern in Microsoft Research Asia (2008) and a car design intern in Shanghai Motor Group (2007-2008).

In March 2014, Shi Qiu was admitted to the

Eindhoven University of Technology and later received the fund from Chinese Scholarship Council. She is now working as a PhD candidate in Industrial Design Department and focuses on the research topic: Interaction Design for the Blind.

Technical Expertise

Mobile interaction design, web design

Current Interests

Interaction design for the blind, human computer interaction

Funding

Chinese Scholarship Council



Contact Information:
l.tao@tue.nl

Linkai Tao

Ph.D. Candidate

Biography

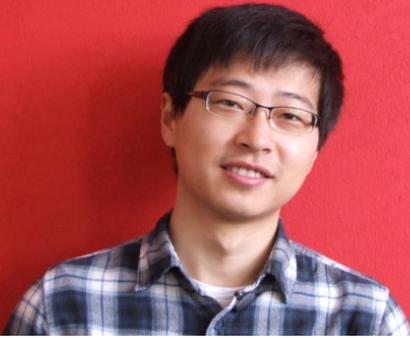
Linkai Tao has a Bachelor in Telecommunication Engineering from Zhejiang University City College (2005). After graduation, he changed his major into industrial design. He had his master degree in School of Software Technology, Zhejiang University(2009), focusing on Info Product Design. During his Master studies, he aimed at Interaction Interface Design and bonding in the context of aging community. He got 2 IF awards and 1 IDEA award during this period. Linkai Tao started his PhD. study in TU/e since 2013. Currently, he is working as a PhD. candidate at the Designed Intelligent research group, supervised by Prof. Loe Fejjs and Prof. Jun Hu.

Current Interests

Tangible interface, Social computing.

Funding

Linkai is supported by China Scholarship Council (CSC)



Contact Information:
CH.Wang@tue.nl

Chao Wang

Ph.D. Candidate

Biography

Chao Wang has achieved his Masters in Artistic Design from Zhejiang University, China in 2012. His Master thesis contains the study of visualisation system of ergonomic data. And then he had two years work experience in Shanghai Motor Group as a human machine interface designer and participated many telematics programs. His interest is interaction design, industrial design and data visualisation.

In September 2013, he received the fund from Chinese Scholarship Council and got admitted to the Eindhoven University of Technology. Chao is currently working as a PhD candidate at the faculty of Industrial Design and focus on the research in smart mobility area especially the integration of telematics and urban

informatics.

Current Interests

Natural interaction design, data visualisation, social media, telematics, urban informatics and user research.

Funding

Chinese Scholarship Council



Contact Information:
+31-40-247-3842
x.wang@tue.nl

Xinwei Wang

Ph.D. Candidate - CSC-TU/e Program

Biography

Xinwei Wang received a B.A. in Industrial Design (2008) and a M.A. in Interaction Design (2010) at Jiangnan University, China. After obtaining her Master degree, she worked as an interaction designer and user interface designer at a mobile service company. She also worked as an illustrator and animator at an animation company. Xinwei joined the Designed Intelligence research group at TU/e in September 2012, and is supervised by prof. dr. G.W.M. Rauterberg and dr. Jun Hu.

Funding

Funding organization CSC (China Scholarship Council)

Current Interests

Interactive storytelling, Learning, Time perception, computing.



Contact Information:
n.yusof@tue.nl

Nizamuddin Md. Yusof

Ph.D. Candidate

Biography

Nizamuddin Md. Yusof received his Bachelor Degree (Dipl.-Ing) in Mechanical Engineering from Fachhochschule Gelsenkirchen (University of Applied Science Gelsenkirchen), Germany in 2009. His professional life at the Universiti Teknikal Malaysia Melaka (UTeM) began in 2009 as a tutor in the Department of Design and Innovation, Faculty of Mechanical Engineering (FKM). In 2012, he completed his Master of Innovation and Engineering Design from Universiti Putra Malaysia (UPM), Malaysia and 1 intellectual property was officially registered and secured. Upon completion of his study, he was appointed as a lecturer in the same department. He had been involved in 3 research projects at both UTeM and national level. He is currently working as a PhD

candidate in the Faculty of Industrial Design and focus on the research in Autonomous Vehicle and Society.

Technical experience

CAD, Engineering Design, Product Development

Current Interests

Autonomous vehicle, HMI, Automotive safety and comfort

Funding

Nizamuddin's Ph.D program is funded by Malaysian Ministry of Education (KPM) and Universiti Teknikal Malaysia Melaka (UTeM)



Contact Information:
B.Yu@tue.nl

Bin Yu

Ph.D. Candidate

Biography

Bin Yu obtained his dual bachelor degree in Industrial Design and Biomedical Engineering at Chongqing University (2010). Afterwards, he received his MSc degree in Biomedical Engineering from Northeastern University (2012). During the masters, he further focused his study on the design of mobile healthcare system. After obtaining his Master degree, he worked as a research assistant at Chinese Academy of sciences with the focus on bio-signal measurement and analysis (2013). He is now a PhD candidate at the Designed Intelligence research group, investigating how bio-signals can be used in design of human computer interaction and the possibilities of improving people's health status physically and mentally with biofeedback.

Technical experience

Bin's main areas of expertise are Industrial Design, Biomedical Engineering, Bio-signal processing, healthcare system design, programming on mobile platform.



Contact Information:
yu.zhang@tue.nl

Yu Zhang

Ph.D. Candidate

Biography

Yu Zhang obtained M.S.in Art of Design from NanJing University of Aeronautics and Astronautics, NanJing, China (2009). She has Certificate of qualification, LP Language School, Singapore (2003)and B.S.in Department of Design, NanJing University of the Arts, NanJing,China(2001). She held positions of Instructor of Industrial Design at College of Furniture and Industrial Design, Nanjing Forest University(2009-12), Instructor of IndustrialDesign, Department of Design, Nananjing Institute of Visual Arts (2004-06), Designer, NanJing Jiu Chuang Marking System CO.,LTD(2003-04). She took teaching courses in Sketch, Color Painting, Industrial Design Principle, Product Sketches, The Foundation of Product Design,Font and Format Design, Packaging Design,Computer Graphic design,

Rendering Representation, Graduation Design

Guidance. Working experience

Designer and Supervisor,2003,identification system design of NanJing Olympic Center, NanJing JiuChuang Marking System CO.,LTD Product designer(2008), baby backpack design of SuZhou BABYJOY children products CO.,LTD, NanJing University of Aeronautics and Astronautics, Product designer(2009)electric moto appearance design of ChangZhou RONGJIA Vehicle Industey CO.,LTD, NanJing University of Aeronautics and Astronautics, Product designer,2011,sound box design and product development of SuZhou Sonavox Electronics CO.,LTD,Nanjing Forest University, Designer and Supervisor,2011,lightbox design of HUNING High Iron Engineering, NanJing JiuChuang Marking System CO.,LTD.



Contact Information:
M.Martin.Ortiz@tue.nl

Manuel Martín-Ortiz

Researcher

Biography

Manuel obtained both his Technical Engineering on Computer Systems and Bachelor Degree on Computer Science at the Polytechnic University of Madrid, obtained later his Master on Advanced Artificial Intelligence at the Spanish Open University. Along his studies at the Spanish Open University, he collaborated on the AVISADOS project, funded by the Spanish Government, developing algorithms for robot collaboration. In later projects he continued working with collaborative algorithms and virtual sensors for groups of robots. In the 2013 he joined to the Wikitherapist project, where he is currently working on algorithms and techniques for Human-Robot interaction focused on therapies with autistic children.

Funding

Manuel is part of the Wikitherapist project, which is an IOP IPCR project of Agency NL, funded by the Ministry of Economic Affairs. The IOP IPCR program stimulates projects focused on innovative technologies and R&D cooperation between expert knowledge centres and the business industry.



Contact Information:
+31-40-247-5964
g.j.a.v.d.boomen@tue.nl

Geert van den Boomen

Research Assistant

Biography

Geert studied electronics at an institute for middle-level professional education (MTS) and studied informatics doing evening courses. He started working at the Eindhoven University of Technology in 1981 at the department of Electrical Engineering. In the beginning, he worked as an electronics engineer on a multi disciplinary project for the design and realization of an electric vehicle based on a VW golf. He joined the Signal Processing Systems group (by that time the Medical Electrical Engineering group) in 1984 to work as a research associate, and worked on various multi-disciplinary projects as an electronics engineer. Until 1994 he worked on a project called Ultrasound Transmission Tomography. From 1998 until 2002 he was involved in a large international multi-institutional project (ISPOCD-2) in which postoperative

cognitive dysfunctions in elderly patients were investigated. This second EU-funded project studies the occurrence and possible causes of post operative cognitive decline in elderly patients after major operations. Within this study he was responsible for daily management of the patient data. From 2003 until 2005 he worked for the Medicast project. One of the major goals was to store vital signs from patients in an ICU environment. He took care of the maintenance of a Labview program for the data acquisition. And an inventory of the interfaces from the equipment on an ICU, like patient monitors infusion pumps and ventilators. Later on the derived values from these signals can be directly accessed by a decision support system. He joined the department of Industrial Design in May 2005.



Contact Information:
+31-40-247-2394
e.konijnenberg@tue.nl

Ellen Konijnenberg

Secretary

Biography

Ellen Konijnenberg (1960) studied psychology for four years. She worked in a variety of jobs (pharmacist's assistant, office manager at a company of organizational advisers) before starting to work at the TU/e in 2002. First as a secretary at the GTD, Central Department for Technical Support (who design and build prototypes, etc.), later at the Department of Personnel and Organization., supporting a team of educational trainers and organizing and co-hosting introduction programs for new employees.

As a secretary to the DI-group (since 2008) her main focus is on supporting the full professors in every possible way.

Furthermore she aims to be the "spider in the web", the central contact person for all matters concerning the DI-group

Visiting Address:
Den Dolech 2
5612 AZ Eindhoven

Post Address:
Postbus 513
5600MB Eindhoven

http://w3.id.tue.nl/en/research/designed_intelligence/

TU/e Technische Universiteit
Eindhoven
University of Technology

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