The 3rd Symposium on Software Engineering for Smart Systems (SSESS 2019)
Held in conjunction with The IEEE Smart World Congress
19-23 August 2019
De Montfort University, Leicester, UK

Overview
Smart systems are those that are able to sense their environment context and adapt their behavior as the context changes in order to provide appropriate services to the user anytime anywhere. The Internet of Things (IoT) is an enabling technology for smart systems as it makes it possible to turn any object into a smart thing, able to sense its current situation, adapt to new situation and communicate with other smart things. There are a growing number of applications emerging from the IoT technology to include cyber-physical systems, smart homes, smart healthcare, intelligent transportation, and smart cities. Software will form a critical part of these systems to provide reliable and efficient smart services.

However, developing software for smart systems is challenging due to a number of reasons: they are highly distributed; large scale; network nodes are heterogeneous; involve resource constrained mobile devices; and requirements are not fixed but change frequently. Thus, traditional methods for requirement engineering, system design, testing and verification are no longer adequate. New approaches are required to cater for changing system requirements, context–awareness, mobility and smart adaptation to changing context.

The aim of this symposium is to provide a forum for researchers, practitioners and developers to share their experiences and discuss the latest advances and innovations in software engineering with application to the development of smart systems.

The symposium topics include but are not limited to the following.

- Requirement engineering
- Software testing
- Model checking
- System verification
- Runtime monitoring
- Cloud computing
- Internet of Things
- Context-aware and adaptive systems
- Mobile computing
- Pervasive/Ubiquitous computing
- Intrusion detection systems
- Security and privacy
- Formal methods
- Cyber physical systems
- E-learning and educational systems

General Chair
- Dr Francois Siewe, De Montfort University, UK.

Program Chair
- Dr Francisco Aparicio-Navarro, De Montfort University, UK.

Publicity Chair
- Dr Stefan Kuhn, De Montfort University, UK.

Registration Chair
- Dr Nisansala Yatapanage, De Montfort University, UK.
Web Chair
• Dr Wen Zeng, De Montfort University, UK.

Local Organising Committee Chair
• Dr Vasileios Germanos, De Montfort University, UK.

Advisory Committee
• Prof Eerke Boiten, De Montfort University, UK.
• Dr Feng Chen, De Montfort University, UK.
• Dr Antonio Cau, De Montfort University, UK.

Technical Program Committee members
• Dr Thai Son Hoang, University of Southampton, UK
• Dr Scott Owens, University of Kent, UK
• Dr Sofia Meacham, University of Bournemouth, UK
• Dr Kirill Bogdanov, University of Sheffield, UK
• Prof Arosha Bandara, The Open University, UK
• Dr Walteneagus Dargie, Technische Universität Dresden, Germany
• Dr Alastair Donaldson, Imperial College London, UK
• Dr Yijun YU, The Open University, UK
• Dr Shikun Zhou, University of Portsmouth, UK
• Prof Phan Cong Vinh, Nguyen Tat Thanh University, Vietnam
• Dr Esther Palomar, Birmingham City University, UK
• Dr Ana Salagean, Loughborough University, UK
• Prof Zhu Huibiao, East China University, China
• Dr Antonio Cau, De Montfort University, UK
• Dr Timothy A. Chadza, Loughborough University, UK
• Dr Emanuele Lido Secco, Liverpool Hope University, UK
• Dr Anuradha D. Mudiyanselage, Liverpool Hope University, UK

Important Dates
• Paper submission due: 26 April, 2019
• Notification of acceptance: 10 May, 2019
• Camera-ready due: 19 May, 2019

Submission Guidelines
Authors are requested to submit original, unpublished manuscripts in standard IEEE proceedings format in PDF. All submissions must be typeset in double-column IEEE format, with all fonts embedded. Submitted papers must include the contact information of all the authors. Please make sure you use the latest version of the templates to prepare your submissions. The IEEE LaTeX and Microsoft Word templates for conferences can be found at IEEE Manuscript Templates for Conference Proceedings.

All papers should be of up to 6 pages including all figures, tables, and references. At most 2 additional pages with the pages overlength charge. All accepted workshop papers will be included in the IEEE SmartWorld 2019 proceedings, published by IEEE-CS Conference Publishing Services. At least one of the authors of any accepted paper is required to attend the conference.

Contact
Dr. Francois Siewe, De Montfort University, Leicester, UK.
E-mail: fsiewe@dmu.ac.uk