Message from Industry Forum Chairs of ICSE 2018

The Industry Forum is a brand new venture for ICSE's 50th year. This one day event is aimed at creating synergy between new industrial participants and ICSE goers. The Forum provides international and local industry an opportunity to expand their reach within the software engineering community. The Industry Forum is an opportunity for industry to hear about the latest advances in software engineering, and to meet academics and students in an intimate setting, leading to lasting connections. Through an active exchange of ideas, we hope to see new understandings and partnerships emerge.

Key elements of the day are the opening ICSE plenary keynote by Sara Mazur, Vice President and Head of Research at Ericsson, the invited keynotes, Gold supporter keynotes and a panel featuring industry and academic experts. Networking will be encouraged by an exhibition area with dedicated show times coinciding with breaks, a speed dating session, a sit down working lunch, and a closing aperitif.

Jan Bosch, Chalmers University Technology, Gothenburg, Sweden will tackle the question of "Why Digitalization Will Kill Your (Software) Company Too". Jan Bosch is director of the Software Center, a strategic partner-funded collaboration between 11 large European companies and five universities focused on software engineering excellence. He will outline how companies should act to maintain their competitiveness by building new organizational capabilities around speed and continuous value delivery. The keynote uses examples from industry as well as results from research conducted in Software Center, a research collaboration with 11 companies, including Ericsson, Volvo Cars, AB Volvo, Saab Defense, Siemens, Bosch and Tetra Pak.

Danica Kragic, Professor at the School of Computer Science and Communication at the Royal Institute of Technology, KTH, and Director of the Centre for Autonomous Systems, has been invited because of the extreme topicality of her focus area: "Robotics, Software and Artificial Intelligence: State of the art and future challenges". The integral ability of any robot is to act in the environment, interact and collaborate with people and other robots. The current trend in computer vision is development of data-driven approaches where the use of large amounts of data tries to compensate for the complexity of the world captured by cameras. Kragic will present the current state of the art in the area of robot vision and show how visual input can be used to plan, guide and assess a robot's action and interaction with the environment.

Noel Lovisa is CEO and founder of Code Valley, a software development tools company that allows developers to utilise Emergent Coding to create software. Emergent Coding relies upon a decentralised platform for *competitive compilation*, where program requirements are given in language-agnostic form, and where each developer-owned node in the system receives payment every time it contributes compiled bytes to a new build. Lovisa will address the questions: What does it take to unlock the viability of software specialisation for developers? And what should the world expect from a *Software Industry that is industrialised*?

Mark Harman is an engineering manager at Facebook London, where he manages the Sapiens team, working on Search Based Software Engineering (SBSE) at Facebook Scale. He is also a part time professor of Software Engineering in the Department of Computer Science at University College London, where he directed the CREST centre for ten years (2006-2017) and was Head of Software Systems Engineering (2012-2017). Mark and his colleagues Dr. Jia and Dr. Mao from the SBSE testing start-up Majicke, were acquired by Facebook in February 2017. Mark will talk about mechanisms through which academics and industrialists can work together productively.

From Mälardalen University, Västerås, Sweden we shall hear about the Industrial PhD School (IT-EASY) - Efficient industry-academia cooperation. Other Gold supporters will also be given the floor.

The panel has attracted a stellar line-up of speakers: Lionel Briand – University of Luxembourg, Markus Borg – RISE SICS Sweden, Mark Harman – Facebook and University College London, UK, Liliana Pasquale – LERO and University of Dublin, Ireland, Caitlin Sadowski – Google US, Tom Zimmermann – Microsoft Research US. The topic under debate is "Software Engineering in 2030". In twenty two years' time, what will be important? What will have been solved? How will industry and academia work together? While the panelists will prepare answers for their short presentations in advance, all attendees will also have time to submit new questions. During the working lunch, each table will be able to prepare three questions, some of which will be presented to the panel.

We hope that you will enjoy the day and will go home energized for collaboration, with many new connections and ideas.

Pekka Abrahamsson, Industry Forum Chair
University of Jyväskylä
Finland

Judith Bishop, Industry Forum Chair
Stellenbosch University
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