



POLITÉCNICA



Universidad
Politécnica
de Madrid

ETSI SISTEMAS
INFORMÁTICOS

Máster en Ciencias y Tecnologías de la Computación Doctorado en Ciencias y Tecnologías de la Computación para Smart Cities

Curso 2014-15

Seminarios de Investigación

8º seminario:

Título: Research methods in software engineering

Conferenciante: Kari Smolander

Fechas: 11 y 12 de mayo de 2015

Lugar: Sala de Grados (ETS de Ingeniería de Sistemas Informáticos)

Hora: 17:00

Descripción: The lectures will give an overview of the essential concepts and methods in empirical software engineering research. The principles of scientific research and reporting are discussed. This includes understanding of the difference between positivist and interpretivist approaches in research. The most essential research methods in empirical software engineering, qualitative methods, experiments, quantitative methods, and design research are shortly presented.

Lunes 11 (3 horas):

- Software engineering as science
- Classification of research methods
- Qualitative approaches

Martes 12 (3 horas)

- Quantitative approaches
- Action and design in research
- Experiments
- Exercise on choosing the research method

Breve curriculum del conferenciante: Kari Smolander is Professor of Software Engineering in School of Business and Management, Software and Innovation department, Lappeenranta University of Technology, Finland. He has a PhD (2003) in Computer Science from

Lappeenranta University of Technology and a Licentiate (1993) and Master (1988) degree from University of Jyväskylä, Finland. In addition to his long teaching and research experience, he has worked several years in industry and in 1990's he was the main architect in the development of MetaEdit CASE tool. He has more than 120 refereed research papers in international journals and conferences. His current research interests include software and systems development practices and software development organizations.

Madrid, a 27 de abril de 2015

Fdo.: D. Jesús García López de Lacalle
(Coordinador de la asignatura)