**Masterclass on Advances in Fuzzy Systems**

22 February 2018, 13:00 - 18:00

Location: TU/e - Zwarte Doos, Filmzaal

Organizer: DSC/e, SIKS, and Benelux Chapter of the IEEE CIS

Webpage: [http://is.ieis.tue.nl/research/MAFS18](https://solismail.uu.nl/owa/redir.aspx?C=nLTpe92_BuEoD0eO5W9rCmjjaVMzh_fg0VOLCdOUWFS-ZN1bxm_VCA..&URL=http%3a%2f%2fis.ieis.tue.nl%2fresearch%2fMAFS18" \t "_blank)

Participation is free, however [registration](https://solismail.uu.nl/owa/redir.aspx?C=RUg2bnRGtbWIdEzfixhDSq4izuEYUBn4qTifBoaJFAa-ZN1bxm_VCA..&URL=http%3a%2f%2fis.ieis.tue.nl%2fresearch%2fMAFS18%2f" \t "_blank) is required.

Fuzzy systems play an important role in the development of intelligent systems due to their ability to model nonlinear system behavior, to deal with non-probabilistic uncertainty and to describe model behavior in natural language, making communication with humans, users and decision makers easier. Therefore, fuzzy systems have found applications in many fields ranging from information systems to healthcare, to business analytics, to data science, to engineering solutions. This Master Class focuses on the recent developments in the theory and applications of fuzzy systems. Four international researchers will touch upon different aspects of fuzzy systems. In addition to listening to their lectures, the Master Class will provide ample opportunity to interact with the speakers and other participants for discussing and exchanging ideas on the field.

Program

13:00 - 13:30 Welcome

13:30 - 14:15 Lecture Marek Reformat, University of Alberta, Canada
              Topic: Pythagorean Fuzzy Sets in Recommendation Systems

14:15 - 15:00 Lecture Joao Paulo Carvalho, INESC-ID, University of Lisbon, Portugal

              Topic: Recommender Systems: Using Fuzzy Fingerprints for Proper Recommendations

15:00 - 15:30 Coffee break

15:30 - 16:15 Lecture Guy De Tré, Ghent University, Belgium

Topic: Using fuzzy sets in geographical decision support systems: practical experiences from the Tiles project

16:15 - 17:00 Lecture Rui Jorge Almeida, Maastricht University, The Netherlands

Topic: Beyond point estimation using Probabilistic Fuzzy Systems

17:00 - 18:00 Closing drinks

This Master Class is endorsed by DSC/e (Data Science Center Eindhoven), SIKS (Netherlands Research School for Information and Knowledge Systems) and the Benelux Chapter of the IEEE CIS (Computational Intelligence Society). **SIKS PhD students will receive 0.5 ECTS for following the Master Class. Other Participants will receive a certificate of participation.** Scientific directors of this Master Class are prof. Uzay Kaymak and dr. Anna Wilbik.