Description of the session topic
The term Soft Computing is usually used in reference to a family of several preexisting techniques (Fuzzy Logic, Neuro-computing, Probabilistic Reasoning, Evolutionary Computation, etc.) able to work in a cooperative way, taking profit from the main advantages of each individual technique, in order to solve complex real-world problems for which other techniques are not well suited.

There are many software tools for Soft Computing. Most of these tools are available as open source software (see the webpage http://sci2s.ugr.es/fss). For example, regarding fuzzy modeling, JFML is the first library in the world that allows to develop fuzzy systems according to the new IEEE Std 1855 published and sponsored by the Standards Committee of the IEEE Computational Intelligence Society. There are stand-alone tools but also useful libraries in Java, Python, R, etc. Please, notice that these software tools are ready to play an important role in both industry and academia.

This session is supported by the IEEE-CIS FSTC Task Force on Fuzzy Systems Software and it is considered as one of the main planned activities of this TF in 2021.

Scope and topics
The aim of this session is to provide a forum to disseminate and discuss Software for Soft Computing, with special attention to Fuzzy Systems Software. We want to offer an opportunity for researchers to identify new promising research directions in this area. Topics of interest are:
- Data Preprocessing
- Data Mining and Evolutionary Knowledge Extraction
- Modeling, Control, and Optimization
- System Validation, Verification, and Exploratory Analysis
- Knowledge Extraction and Linguistic/Graphical Representation
- Visualization of results
- Languages for Soft Computing Software
- Interoperability and Standards
- Data Science, Big Data, and High-Performance Computing
- Explainable Artificial Intelligence
- Applications

Deadlines
- Paper submission: February 10th, 2021
- Acceptance/rejection notification: March 22nd, 2021
- Camera-ready paper submission: April 12th, 2021
- Conference dates: July 11-14, 2021

Notes
Papers submitted for special sessions are to be peer-reviewed with the same criteria used for the rest of contributed papers. As a result, all accepted papers will be included in the proceedings of the FUZZ-IEEE 2021. If you are interested in taking part in this special session, please submit your paper directly through the FUZZIEEE 2020 website selecting the option "Main research topic": Special Session on Software for Soft Computing.

Program Committee
- Jose Manuel Soto-Hidalgo, University of Granada (Spain)
- Jesús Alcalá-Fdez, University of Granada (Spain)
- Jose M. Alonso, Research Centre in Information Technologies of the University of Santiago de Compostela (Spain)
- Giovanni Acampora, University of Naples (Italy)
- Plamen Angelov, Lancaster University (UK)
- Brigitte Charmomordic, INRA/SupAgro (France)
- Jose M. Cadenas, University of Murcia (Spain)
- Oscar Cordón, University of Granada (Spain)
- Juan Carlos Gámez, University of Córdoba (Spain)
- Chang Shing-Lee, University of Taiwan (Taiwan)
- Serge Guillaume, Cemagref (France)
- Chin Teng Lin, National Chiao Tung University (Taiwan)
- Luis Magdalena, Technical University of Madrid (Spain)
- Corrado Mencar, University of Bari (Italy)
- Amir Pourabdollah, Nottingham Trent University (UK)
- Detlef Nauck, BT's Intelligent Systems Research Centre (UK)
- Luciano Sánchez, University of Oviedo (Spain)
- Christian Wagner, University of Nottingham (UK)

Organizers
Jose Manuel Soto-Hidalgo (jmsoto@ugr.es)
Chair of the IEEE-CIS FSTC Task Force on Fuzzy Systems Software
Department of Computer Architecture and Technology, University of Granada, Granada, E-18071, Spain
Website: https://www.researchgate.net/profile/Jose_Soto-Hidalgo

Jesús Alcalá-Fdez (jcalala@decsai.ugr.es)
ViceChair of the IEEE-CIS Task Force on Fuzzy Systems Software
DeSIC Andalusian Research Institute, Dept. Computer Science and Artificial Intelligence, University of Granada, Granada, E-18071, Spain
Website: http://sci2s.ugr.es/members/index.php?10003

Jose M. Alonso (josemaria.alonso.moral@usc.es)
Chair of the IEEE-CIS FSTC Task Force on Explainable Fuzzy Systems
Centro Singular de Investigación en Tecnologías Intelixentes (CITIUS), Univ. de Santiago de Compostela, E-15782 Santiago de Compostela, Spain
Website: https://citius.usc.es/v/jose-maria-alonso-moral