R I F ’19 P R O C E E D I N G
The 8th International Seminary on Computer Science Research at Feminine
New trends in system analysis and design

Constantine 2 University, Abdelhamid MEHRI
LIRE LABORATORY

March 09, 2019
CONSTANTINE, ALGERIA
The 8th edition of the seminary RIF “Computer Science Research at Feminine” (La Recherche en Informatique au Féminin) is organized by the women's research team of the LIRE Laboratory of Constantine 2 University. RIF 2019, held at Constantine 2 University in March 09- 2019, acts as a major forum for presenting innovative ideas, approaches, developments and research projects in the area of the Design and Analysis of Computer Systems. It aims to facilitate the exchange of information between researchers about the latest issues and advancement in computer systems. The topics suggested by the seminary can be discussed in term of concepts, surveys, implementations, running experiments, applications and industrial case studies.

**Topics:**

- Mobile Software Engineering and Systems
- Safety and Security of Distributed Systems
- Modern and Emerging Systems (Internet of Things, Cyber-Physical Systems, Fog Systems, Cloud Systems, etc.)
- Software Architectures, Design patterns and application frameworks
- Semantic interoperability, Ontologies and LOD, Semantic Web
- Cooperative Information Systems
- Big Data
The 8th International Seminary on Computer Science Research at Feminine

8ème Séminaire International sur La Recherche en Informatique au Féminin

New Trends in System Analysis and Design

March 09, 2019
Constantine 2 University – Abdelhamid Mehri
Constantine, Algeria
# Table of contents

Message from the Chairs .................................................................Page 1  
Conference Chairs ........................................................................Page 2  
Steering Committee ......................................................................Page 2  
Program Committee ......................................................................Page 3  

Keynote Speaker: Decision Support: From Mathematical Modeling .................Page 4  
Ghada El Khayat  

Oral Presentations  
Deep Semantic Parsing Method to Capture the Structure of Multi-Relation ..........Page 5  
Questions over Linked Data  
Wafa Nouar and Zizette Boufaida  

A Survey on Dynamic Multipoint Virtual Private Networks .............................Page 15  
Roumaissa Khelf and Nassira Ghoualni-Zine  

Privacy-preserving access control for sharing health data in cloud environment ....Page 25  
Insaf Boumezbeur and Karim Zarour  

A quantum particle swarm optimization approach for feature selection in the ..........Page 33  
data classification  
Sihem Benkhaled, Hichem Houassi and Mounir Hemam  

A service classification and selection framework for efficient provider discovery ......Page 42  
in a Cloud-based Supply Chain  
Souheila Boudouda and Soumia Bendekkoum  

Security Requirements for Outsourced Big Data in a Cloud Environment ............Page 51  
Imene Bouleghlimat and Salima Hacini
Welcome Message from the Chairs

It’s a great pleasure and honor for us to welcome you all to RIF 2019, the International Seminary on Computer Science Research at Feminine, being held in Constantine2 University, Algeria.

RIF is organized every year since 2012 by the LIRE Laboratory (Laboratoire d’Informatique REpartie). It is a scientific event open to researchers to present their research works in different topics and to exchange their theoretical and applied results.

The main objective of RIF 2019 is to provide new trends in computer system analysis and design: approaches, surveys, industrial case studies, developments and running experiments. The scientific program of RIF’19 starts with a keynote speaker by Ghada El Khayat (Ph.D. at Alexandria University, Egypt) on decision support, followed by research presentations. On the sidelines of the seminary, an oral competition is organized including general Knowledge and computer Science Knowledge. We hope that this can bring fruitful scientific exchanges.

For the success of this seminary, we thank the organizing committee members who did an outstanding job to make RIF 2019 a special event. We also are greatly indebted to LIRE laboratory, Constantine2- Abdelhamid Mehri University and NTIC Faculty for their generous sponsoring and support. We are blessed with the presence of our keynote speaker, her participation and contribution are deeply appreciated.

Finally, we thank you for participating in RIF 2019 and we truly hope you will have a rewarding experience and enjoyable time at the seminary and in Constantine.

General Conference Chair
Zizette Boufaida, Constantine2 University, Algeria

Program Committee Chairs
- Faiza Belala
- Fouzia Magra-Benchikha

Organizing Committee Chair
Afifa Ghenai
Conference chairs

Honorary Chairs

- Mohamed El-Hadi LATRECHE  
  President of Constantine 2 University, Algeria
- Zaidi SAHNOUN  
  Dean of NTIC Faculty, Constantine 2 University, Algeria

General Conference Chair

- Zizette BOUFAIDA, Constantine 2 University, Algeria

Program Committee Chairs

- Faiza BELALA, Constantine 2 University, Algeria
- Fouzia MAGRA-BENCHIKHA, Constantine 2 University, Algeria

Organizing Committee Chair

- Afifa GHENAI, Constantine 2 University, Algeria

Steering Committee

- Souheila Boudouda, Algeria
- Sahar Smaali, Algeria
- Imene Bentounsi, Algeria
- Meriem Thabet, Algeria
- Souad Bouaicha, Algeria
Program Committee

- Chahinez Bachtarzi, Algeria
- Faiza Belala, Algeria
- Meriem Belguidoum, Algeria
- Amel Benna, Algeria
- Fouzia Magra-Benchikha, Algeria
- Adla Bentellis, Algeria
- Nadira Benlahreche, Algeria
- Souad Bouaicha, Algeria
- Imene Bentounsi, Algeria
- Chafia Bouanaka, Algeria
- Nassima Bouchareb, Algeria
- Maroua Bouzid, France
- Souheila Boudouda, Algeria
- Samia Chikhi, Algeria
- Zizette Boufaida, Algeria
- Aicha Choutri, Algeria
- Christine Choppy, France
- Asma Djellal, Algeria
- Meriem Djezzar, Algeria
- Afifa Ghenai, Algeria
- Nacira Ghoualmi, Algeria
- Salima Hacini, Algeria
- Sonia Gueraich, Algeria
- Ilhem Labed, Algeria
- Hakima Mellah, Algérie
- H.F. Merouani, Algeria
- Hassina Seridi, Algeria
- Meriem Thabet, Algeria
- Isabelle Wattiau, France
- Nadia Zeghib, Algeria