





Constantine 2 University – Abdelhamid Mehri LIRE LABORATORY

2019, EDITION

March 09, 2019 CONSTANTINE, ALGERIA



The 8<sup>th</sup> 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

## **RIF 2019**

# The 8<sup>th</sup> 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 S to Serious Games <i>Ghada El Khayat</i>	Support: From Mathematical ModelingPage 4	
Oral Presentations Deep Semantic Parsing Meth Questions over Linked Data Wafa Nouar and Zizette Bouj	nod to Capture the Structure of Multi-Relation	
A Survey on Dynamic Multip Roumaissa Khelf and Nassiro	oint Virtual Private Networks <b>Page 1</b> a Ghoualmi-Zine	.5
Privacy-preserving access collinsaf Boumezbeur and Karim	ntrol for sharing health data in cloud environment <b>Page 2</b> In Zarour	<u>?</u> 5
A quantum particle swarm o data classification Sihem Benkhaled, Hichem Ho	ptimization approach for feature selection in thePage 3	33
A service classification and so in a Cloud-based Supply Cha Souheila Boudouda and Soun		12
Security Requirements for O Imene Bouleghlimat and Sal	utsourced Big Data in a Cloud Environment	51

### **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 Constantine 2University, 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**

#### **Honory 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