



## GENERAL PROGRAM

Day 1	Thursday 03 October	Day 2	Friday 04 October
8h30-9h30	Welcome and Registration	9h00-9h30	Welcome and Registration
9h30-10h00	Opening ceremony	9h30-11h00	Keynote Speaker (3) and Keynote Speaker (4)
10h00-11h00	Keynote Speaker (1)	11h00-11h30	Coffee break
11h00-11h30	Coffee break	11h30-12h50	Session ICC1    Session SSA2
11h30-12h50	Session AIAT1    Session BDA1	12h50-14h15	Free time (for Friday's prayer )
12h50-14h00	Lunch	14h15-15h00	Lunch
14h00-15h00	Keynote Speaker(2)	15h00-16h00	Keynote Speaker(4)
15h00-16h00	Session AIAT2    Session SSA1	16h00-17h20	Session AIAT4    Session SSA3
16h00-16h30	Session SSA1	17h20-17h40	Coffee break
16h30-17h30	Session AIAT3    Session BDA2	17h40-18h00	Closing Ceremony

## Keynote-Speakers

	Keynote	Chair	
Jeudi 3 Oct.	10h00 - 11h00	Pr. Amal El Fallah Seghrouchni Sorbonne University – Faculty of Science and Engineering, France.	Pr. Najima Daoudi ESI, Morocco.
	14h00 - 15h00	Pr. Ladjel BELLATRECHE National Engineering School for Mechanics and Aerotechnics, Poitiers, France.	Pr. Ahmed Zellou ENSIAS, Morocco.
Vendredi 4 Oct.	9h30 - 11h00	Pr. VIOLETTA CAVALLI-SFORZA Computer Science at AI Akhawayn University, Morocco.	Pr. Abdellatif Mezrioui INPT, Morocco.
		Pr. Ali SIADAT ParisTech, France.	
	15h00 - 16h00	Pr. Atilla ELCI Department of Electrical-Electronics and Computer Engineering, Aksaray University, Turkey.	Pr. Rajaa Saidi INSEA Morocco.

## Sessions

AIAT	Artificial Intelligence: Algorithms and Techniques (4 Sessions)
SSA	Smart Systems and Application (4 Sessions)
BDA	Big Data and Applications (2 Sessions)
ICC	IOT and Cloud Computing (1 Session)

ICSSD'19, 03-04 Octobre 2019, ESI

<b>SESSIONS ORALES</b> <b>Jeudi 03 Octobre 2019</b>	
<b>S-AIAT1</b>	<b>Chair:</b> Pr. Amal El Fallah Seghrouchni, Sorbonne University, Pr. Najima Daoudi. ESI, Morocco. <b>Salle 1</b>
11h30 - 12h50	<p><b>PAPER_ID 16 : FRAUD DETECTION IN CREDIT CARD TRANSACTION USING MACHINE LEARNING TECHNIQUES</b> IMANE SADGALI, NAWAL SAEL AND FAOUZIA BENABBOU</p> <p><b>PAPER_ID 41 : AUTOMATIC DETECTION OF FAKE NEWS ON ONLINE PLATFORMS: A SURVEY</b> YASMINE LAHLOU, SANAA EL FKIHI AND RDOUAN FAIZI</p> <p><b>PAPER_ID 70 : FLAT AND HIERARCHICAL USER PROFILE CLUSTERING IN AN E-COMMERCE RECOMMENDER SYSTEM</b> SARA OUAFTOUH, IMAD SASSI, AHMED ZELLOU AND SAMIR ANTER</p> <p><b>PAPER_ID 35 : ARTIFICIAL NEURAL NETWORKS OPTIMIZED WITH UNSUPERVISED CLUSTERING FOR IDS CLASSIFICATION</b> ICHRAK LAFRAM, AICHA MARRHICH, NAOUAL BERBICHE, JAMILA ELALAMI</p>
<b>S-BDA1</b>	<b>Chair :</b> Pr. Sihame Yousfi. ESI, Morocco. Pr. Mounia Mikram, ESI, Morocco <b>Salle 2</b>
11h30 - 12h50	<p><b>PAPER_ID 11 : DESIGNING A MIDDLEWARE COURSE FOR A REAL TIME INTERACTIVE LEARNING IN SOCIAL LEARNING ENVIRONMENT</b> HAJAR ZANKADI, IMANE HILAL AND ABDELLAH IDRISSE</p> <p><b>PAPER_ID 37 : CUSTOMIZED DATA EXTRACTION AND PROCESSING FOR THE PREDICTION OF BABY BLUES FROM SOCIAL MEDIA</b> MARYAME NAJI, NAJIMA DAUDI, HASNAE RAHIMI AND RACHIDA AJHOUN</p> <p><b>PAPER_ID 67 : ADAPTATION OF CLASSICAL MACHINE LEARNING ALGORITHMS TO BIG DATA CONTEXT: PROBLEMS AND CHALLENGES. CASE STUDY: HIDDEN MARKOV MODELS UNDER SPARK</b> IMAD SASSI, SARA OUAFTOUH AND SAMIR ANTER</p> <p><b>PAPER_ID 34 : BIG DATA DEPENDABILITY: OPPORTINITIES &amp; CHALLENGES</b> FATIMA EZZAHRA MDARBI, NADIA AFIFI AND IMANE HILAL</p>

<b>S-AIAT2</b>	<b>Chair :</b> Pr. Hasnae Rahimi, ESI, Morocco. Pr. Sihame Yousfi. ESI, Morocco <b>Salle 1</b>
15h00 - 16h00	<p><b>PAPER_ID 2 : SENTIMENT CLASSIFICATION ON MOVIE REVIEWS AND TWITTER: AN EXPERIMENTAL STUDY OF SUPERVISED LEARNING MODELS</b> OUMAIMA HOURRANE, NOUHAILA IDRISSE AND EL HABIB BENLAHMAR</p> <p><b>PAPER_ID 36 : AN OVERVIEW ON SENTIMENT MINING FOR STOCK MARKET PREDICTION</b> HIND BOUREZK, AMINE RAJI, NAWFAL ACHA, HAFID BARKA</p> <p><b>PAPER_ID 14 : TOWARDS A PATIENT RULE INDUCTION BASED CLASSIFIER</b> RYM NASSIH AND ABDELAZIZ BERRADO</p>
<b>S-SSA1</b>	<b>Chair :</b> Pr. Ladjel BELLATRECHE, NESMA, France. Pr. Imane Hilal, ESI, Morocco <b>Salle 2</b>
15h00 - 16h00	<p><b>PAPER_ID 23 : DYNAMIC PEER RECOMMENDATION SYSTEM BASED ON TRUST MODEL FOR SUSTAINABLE SOCIAL TUTORING IN MOOCS</b> KHADIJA ELGHOMARY AND DRISS BOUZIDI</p> <p><b>PAPER_ID 48 : TOWARDS THE DEVELOPMENT OF TALEND OPEN STUDIO COMPONENTS FOR THE SUPPORT OF SEMANTIC SOURCES</b> MORAD HAJJI, MOHAMMED QBADOU AND KHALIFA MANSOURI</p> <p><b>PAPER_ID 25 : SURVEY OF RESERVATION TECHNIQUES IN SMART PARKING</b> NIHAL ELKHALIDI, FAOUZIA BENABBOU AND NAWAL SAEL</p>

**S-AIAT3** Chair : Pr. Rajaa Saidi, INSEA, Morocco. Pr. Imane Hilal, ESI, Moocco. Salle 1

**16h45**  
-  
**17h45** PAPER\_ID 3 : **AN EMPIRICAL STUDY OF DEEP NEURAL NETWORKS MODELS FOR SENTIMENT CLASSIFICATION ON MOVIE REVIEWS AND TWITTER**

OUMAIMA HOURRANE, NOUHAILA IDRISSE AND EL HABIB BENLAHMAR

PAPER\_ID 12 : **A SURVEY OF TOOLS AND METHODS USED FOR RANDOM FOREST INTERPRETATION**

MAISSAE HADDOUCHI AND ABDELAZIZ BERRADO

PAPER\_ID 51 : **THIN-PLATE SPLINE RBF SURROGATE MODEL FOR GLOBAL OPTIMIZATION ALGORITHMS**

ZINEB TABBAKH, RACHID ELLAIA, EL-GHAZALI TALBI

**S-BDA2** Chair : Pr. Mounia Mikram, ESI, Morocco. Pr. Hasnae Rahimi, ESI, Morocco Salle 2

**16h45**  
-  
**17h45** PAPER\_ID 49 : **DECOMPOSITION AND VISUALIZATION OF HIGH-DIMENSIONAL DATA IN A TWO-DIMENSIONAL INTERFACE**

MIMOUN LAMRINI AND MOHAMED YASSIN CHKOURI

PAPER\_ID 9 : **A SPARK-BASED BIG DATA ANALYTICS FRAMEWORK FOR COMPETITIVE INTELLIGENCE**

ADIL BOUKTAIB, ABDELHADI FENNAN, MOHAMED BAHRA AND HAYTAM HMAMI

PAPER\_ID 10 : **PREDICTIVE PROCESS MONITORING RELATED TO THE REMAINING TIME DIMENSION: A VALUE-DRIVEN FRAMEWORK**

ZINEB LAMGHARI, MARYAM RADGUI, RAJAA SAIDI AND MOULAY DRISS RAHMANI

**SESSIONS ORALES**  
**Vendredi 04 Octobre 2019**

**S-ICC1** Chair : Pr. VIOLETTA CAVALLI-SFORZA, Al Akhawayn University, Morocco. Pr. Ahmed Zello, ENSIAS, Morocco Salle 1

**11h00**  
-  
**12h20** PAPER\_ID 43 : **A LIGHTWEIGHT RISK ANALYSIS OF A CRITICAL INFRASTRUCTURE BASED ICS SYSTEMS**  
OMAR EL IDRISSE, ABDELLATIF MEZRIOUI AND ABDELHAMID BELMEKKI

PAPER\_ID 68 : **BLACK SDN FOR WSN**  
EL YAZIDI ABDELAZIZ, BERRADA ISMAIL, EL KAMILI MOHAMED AND HASNAOUI MY LAHCEN

PAPER\_ID 64 : **PROPELLING MOTION MODELING OF AN HEXAPOD ROBOT**  
MOHAMED ATIFY, MOHAMMED BENNANI AND ABDELLAH ABOUABDELLAH

PAPER\_ID 58 : **KEEPING INTEROPERABILITY BETWEEN IMS-LD SCENARIOS IN EDUCATIONAL CLOUD COMPUTING BASED ON SEMANTIC INDEXING**  
KAMAL EL GUEMMAT AND SARA OUAHABI

**S-SSA2** Chair : Pr. Mariem Rhanoui, ESI, Morocco. Pr. Mezrioui, INPT, Morocco Salle2

**11h00**  
-  
**12h20** PAPER\_ID 57 : **TOWARDS A NEW EDUCATIONAL SEARCH ENGINE BASED ON HYBRID SEARCHING AND INDEXING TECHNIQUES**  
KAMAL EL GUEMMAT AND SARA OUAHABI

PAPER\_ID 50 : **TOWARDS THE IMPLEMENTATION OF AN ONTOLOGY BASED ON COBIT FRAMEWORK (COBITONYOLOGY)**  
LAMIA MOUDOUBAH, ABIR EL YAMAMI, KHALIFA MANSOURI AND MOHAMED QBADOU

PAPER\_ID 13 : **SMART CITY SERVICES MONITORING FRAMEWORK USING FUZZY LOGIC BASED SENTIMENT ANALYSIS AND APACHE SPARK**  
MOHAMED BAHRA, ABDELHADI FENNAN, ADIL BOUKTAIB AND HAYTAM HMAMI

PAPER\_ID 21 : **IMPACT OF EMERGENCE ON THE EVOLUTION OF COOPERATION IN PUBLIC GOODS GAMES**  
JALAL EDDINE BAHBOUHI AND NAJEM MOUSSA

**S-AIAT4** Chair : Pr. Atilla ELCI, DEECE, Aksaray University, Turkey. Pr. Imane Hilal, ESI, Morocco Salle 1

16h00 - 17h00 PAPER\_ID 65 : **A RESTRICTED BOLTZMANN MACHINE-BASED RECOMMENDER SYSTEM FOR ALLEVIATING SPARSITY ISSUES**  
NOUHAILA IDRISSE, OUMAIMA HOURRANE, AHMED ZELLOU AND EL HABIB BENLAHMAR

PAPER\_ID 56 : **ENHANCING CASH MANAGEMENT USING MACHINE LEARNING**  
ZINEB MOUBARIKI, LAHCEN BELJADID, MOHAMMED EL HAJ TIRARI, MOHAMMED KAICER AND RACHID OULAD HAJ THAMI

PAPER\_ID 63 : **PERFORMANCE EVALUATION OF MACHINE LEARNING ALGORITHMS IN HANDWRITTEN DIGITS RECOGNITION**  
SOUFIANE HAMIDA, BOUCHAIB CHERRADI, HASSAN OUAJJI AND ABDELHADI RAIHANI

PAPER\_ID 53 : **SUGGESTION OF A RECOMMENDATION SYSTEM FOR THE TUTOR BASED ON SIMILARITY DEGREES**  
FAQIHI MY BRAHIM, DAOUDI NAJIMA AND AJHOUN RACHID

**S-SSA3** Chair : Pr. Abellatif Mezrioui, INPT, Morocco, Pr. Hasnae Rahimi , ESI, Morocco, . Salle 2,

16h00 - 17h00 PAPER\_ID 62 : **A NEW MULTI-AGENT MODEL FOR NETWORK INTRUSION DETECTION**  
SAID OUIAZZANE, MALIKA ADDOU AND FATIMA ZAHRA BARRAMOU

PAPER\_ID 38 : **DETERMINATION OF MERCHANT SHIPS THAT MOST LIKELY TO BE AUTONOMOUSLY OPERATED**  
FATIMA EZZAHRA SAKHI, ABDELMOULA AIT ALLAL, KHALIFA MANSOURI AND MOHAMMED QBADOU

PAPER\_ID 5 : **STUDY AND SIMULATION OF FIBER PRESS CONTROL FOR SOLENOID PARAMETERS MONITORING FOR SMART PREVENTIVE MAINTENANCE**  
ABDELLAH ZAHIDI, SAID AMRANE, NAWFEL AZAMI AND NAOUAL NASSER

PAPER\_ID 59 : **A MULTI-USER FACE IDENTIFICATION SYSTEM WITH DISTRIBUTED TASKS IN A BIG DATA ENVIRONMENT**  
MAJDOULINE MEDDAD, CHOUAIB MOUJAHDI, MOUNIA MIKRAM AND MOHAMMED RZIZA

**POSTER SESSIONS**  
**Jeudi 03 Octobre 2019**

**S-POSTER** Chair : Pr. Maryem Rhanoui, ESI, Morocco. Pr. Imane Hial, ESI, Morocco Salle Hall

16h00 - 16h45 PAPER\_ID 6 : **INDUSTRY 4.0 : A ROADMAP TO DIGITAL SUPPLY CHAINS**  
MARIAM MOUFADDAL, ASMAA BENGHABRIT AND IMANE BOUHADDOU

PAPER\_ID 15 : **TOWARDS ICT INTEGRATION IN HIGHER EDUCATION IN MOROCCO, CHALLENGES AND OPPORTUNITIES**  
AMINA OUATIQ, BOUCHAIB RIYAMI, KHALIFA MANSOURI AND MOHAMMED QBADOU

PAPER\_ID 20 : **ENHANCEMENT OF SUPPLY CHAIN MANAGEMENT BY INTEGRATING BLOCKCHAIN TECHNOLOGY**  
SAFIA NASIH, SARA AREZKI AND TAOUFIQ GADI

PAPER\_ID 42 : **INDUSTRY 4.0 PLANS**  
ABIR NAHIR, ZINAB AALAOUI AND MOURAD TAHAJANAN