CONFERENCE P R O G R A M



The 15th International FLINS Conference on
Machine learning, Multi agent and Cyber physical systems
The 17th International Conference on
Intelligent Systems and Knowledge Engineering



FLINS 2022 & ISKE 2022

FLINS / ISKE

The 15th International FLINS Conference on Machine learning, Multi agent and Cyber physical systems & The 17th International Conference on Intelligent Systems and Knowledge Engineering

FLINS, an acronym introduced in 1994 and originally for Fuzzy Logic and Intelligent Technologies in Nuclear Science, is now extended into a well-established international research forum to advance the foundations and applications of computational intelligence for applied research in general and for complex engineering and decision support systems.

The principal mission of FLINS is bridging the gap between machine intelligence and real complex systems via joint research between universities and international research institutions, encouraging interdisciplinary research and bringing multidiscipline researchers together.

FLINS 2022 is the fifteenth in a series of conferences on Machine learning, Multi agent and Cyber physical systems. The conference will be held in Tianjin, China (Conference Venue). It follows the successful previous FLINS Conferences since 1994, where these conference information can be seen in Introduction to FLINS. FLINS 2022 will be jointly held with the 17th International Conference on Intelligent Systems and Knowledge Engineering (ISKE2022).



Contents

Ch	airs & Committee	. 3	
Со	nference Information	. 5	
Lo	cal policies for Covid-19 prevention	. 6	
Zo	om Guideline	. 8	
Ag	Agenda Overview9		
Ke	Keynote Speakers		
Pa	rallel Technical Sessions	16	
	Session 1: Artificial Intelligence, Intelligent Manufacturing Systems	16	
	Session 2: Computational intelligence, Manufacturing, Process and Service Automation	18	
	Session 3: Intelligent wearable systems, Networked systems, Artificial Intelligence	20	
	Session 4: Knowledge Engineering and Management, Data Mining	22	
	Session 5: Intelligent wearable systems, artificial intelligence	24	
	Session 6: Decision making methods	26	

FUNDING CHAIR

FLINS / ISKE

Da Ruan (1960-2011) (Belgium)

STEERING COMMITTEE

Guoqing Chen (China)

Cengiz Kahraman (Turkey)

Etienne Kerre (Chair, Belgium)

Tianrui Li (China)

Zhong Li (Germany)

Jun Liu (United Kingdom)

Jie Lu (Australia)

Luis Martinez (Spain)

Javier Montero (Spain)

Ronei Marcos de Moraes (Brazil)

Yang Xu (China)

Chunrong Yuan (Germany)

Xianyi Zeng (France)

PROGRAM CHAIRS

Qinglin Sun (China)

Jie Lu (Australia)

SPECIAL SESSION CHAIRS

Irina Perfilieva (Czech Republic)

Shuwei Chen (China)

POSTER SESSIONS CHAIRS

Guangquan Zhang (Australia) Xiaofeng Wu (China)

TUTORIALS CHAIRS Guoqing Chen (China) Cengiz Kahraman (Turkey)

AWARD CHAIR

Xianyi Zeng (France)

PUBLICITY COMMITTEE

Jian-Bo Yang (UK) Rosa Rodriguez (Spain)

Peijun Guo (Japan)

Young Hoon Joo (South Korea)

Pu Li (Germany)

Jianxi Li (China)

Huazhen Lin (China)

Menglei Lin (China)

Fucai Lin (China)

Liliane S. Machado (Brazil)

Shuwei Chen (China)

Phayung Meesad (Thailand)

Yuhong Song (China)

Wallace Tang (Hong Kong)

Hanli Wang (China)

Herwig Unger (Germany)

Jianping Cai (China)

Dong-ling Xu (UK)

Li Zou (China)

LOCAL ORGANIZING COMMITTEE

Qinglin Sun (China)

Zengqiang Chen (China)

Zhongxin Liu (China)

COMMUNICATION CHAIR

Zhebin Xue (China)



Conference Information

Conference Date

August 26-28, 2022

Conference Venue

Onsite venue: Holiday Inn (天津海河假日酒店) Address: 天津市河北区海河东路凤凰商贸广场 Telephone: 86-22-26278888



Online Platform: ZOOM

Download: https://explore.zoom.us/zhcn/products/meetings/



Venue



B 分会场

5F | MEETING ROOM 1-4 (会议室 1-4)

6F | MEETING ROOM 5-6 (会议室 5-6)

Local Policies for Covid-19 Prevention

天津市疫情防控政策:

FLINS / ISKE

2022

- **01** 高风险区:7天内具有旅居史的人员,采取7天集中隔离医学观察,于第1、2、3、5、7天进行核酸检测。管理期限自离开风险区域算起。
- 02 中风险区:7天内具有旅居史的人员,采取7天居家隔离医学观察,于第1、4、7天进行核 酸检测。管理期限自离开风险区域算起。如不具备居家隔离医学观察条件,采取集中隔离医 学观察。
- 03 低风险区、7日内非管控人员中报告新冠病毒感染者所在县(市、区、旗)、直辖市将所在县 (市、区、旗)调整为所在乡镇(街道):7天内具有旅居史的人员,实施抵津前48小时内 核酸阴性证明核验制度,抵津后3天内完两次核酸检测(间隔满24小时),并做好健康监 测。
- 04 重点疫情地区,即经专业机构研判,市防控指挥部批准同意,疫情发生地出现以下任一种情形:疫情规模较大;出现广泛社区传播风险;存在外溢情形或较大外溢风险:原则上,7日内具有重点疫情地区所在街道(乡镇)旅居史人员,根据当地疫情形势及管控方式,采取与高风险区、中风险区相应的管理方式,或酌情采取"7天居家健康监测,于第1、3、7天进行核酸检测"的降级管控方式。必要时,管控范围调整至重点疫情地区所在县(市、区、旗)。
- 05 外地来(返)津人员:有来(返)津计划的人员,持48小时内核酸检测阴性证明、天津健康码"绿码",在完成报备的前提下有序进津。抵津后,上述风险区域按照现行政策执行,其他地区人员于抵津24小时内进行1次核酸检测。针对京津冀通勤人员,上述风险区域按照现行政策执行,其他地区查验72小时内核酸检测阴性证明。
- 06 管控区域类别调整,管理方式相应调整,解除管理前进行1次核酸检测。7日内非管控人员中报告新冠病毒感染者所在县(市、区、旗),如始终未调整风险区且连续7日未在非管控人员中发现新增新冠病毒感染者,管理政策终止。

07 重点疫情地区

海南省三亚市、陵水县、儋州市、海口市、乐东县、万宁市、琼海市、临高县、澄迈县、昌 江县、东方市:具有旅居史的人员,实施抵津前48小时内核酸阴性证明核验制度。7日内 具有旅居史的人员,离开重点疫情地区 < 3日,实施集中隔离医学观察至离开重点疫情地区 满7日,第1、2、3、5、7日进行核酸检测(单人单管),同住人员实施居家隔离医学观察 3日(自纳入管理之日计算,具有旅居史人员解除管理可一同解除管理),进行核酸"日检测", 核酸检测阴性解除管理。7日内具有旅居史的人员,离开重点疫情地区≥3日,实施居家隔离 医学观察(含同住人员)至离开重点疫情地区满7日,进行核酸"日检测"(单人单管),核酸 检测阴性解除管理。自8月14日起,因疫情滞留海南人员(不含中高风险区人员),经海南 省疫情防控指挥部核实符合返程标准者,实施居家隔离医学观察(含同住人员)3日,进行 核酸"日检测"(单人单管),核酸检测阴性解除管理。不具备居家隔离医学观察条件者实施集 中隔离医学观察。



西藏自治区全域,新疆维吾尔自治区乌鲁木齐市、伊犁哈萨克自治州、塔城地区、阿勒泰地 区、哈密市、巴音郭楞蒙古自治州、昌吉回族自治州呼图壁县;新疆生产建设兵团第四师、 第八师、十三师: 8月1日以来具有旅居史的人员,实施抵津前48小时内核酸阴性证明核 验制度,抵津后实施健康监测3日,抵津24小时内进行1次核酸检测,抵津后3天内完两 次核酸检测(间隔满24小时),同住人员同步检测。7日内具有旅居史的人员,离开重点疫 情地区<3日,实施集中隔离医学观察至离开重点疫情地区满7日,第1、2、3、5、7日进 行核酸检测(单人单管),同住人员实施居家隔离医学观察3日(自纳入管理之日计算,具 有旅居史人员解除管理可一同解除管理),进行核酸"日检测",核酸检测阴性解除管理。7日 内具有旅居史的人员,离开重点疫情地区≥3日,实施居家隔离医学观察(含同住人员)至 离开重点疫情地区满7日,进行核酸"日检测"(单人单管),核酸检测阴性解除管理。

08 对入境人员,实施7天集中隔离医学观察+3天居家健康监测。

Zoom Guideline

Platform: Zoom

FLINS / ISKE

- For Users from mainland China please download: www.zoom.com.cn/download
- For General Users please download: https://zoom.us/support/download
- Zoom Help Center: https://support.zoom.us

Time Zone

- China Standard Time (CST) UTC/GMT+08:00
- Please make sure that both the clock and the time zone on your computer are set to the correct China Time

Device

- A computer with an internet connection (wired connection recommended)
- USB plug-in headset with a microphone (recommended for optimal audio quality)
- Webcam (optional): built-in or USB plug-in

Environment

- Quiet Environment
- Stable Internet Connection
- Proper lighting

Sign In and Join

- Join a meeting without signing in: A Zoom account is not required if you join a meeting as a
 participant, but you cannot change the virtual background or edit the profile picture
- Sign in with a Zoom account: All the functions are available

Voice Control Rules

- The host will mute all participants while entering the meeting.
- Speakers can unmute microphone when it is his or her turn for presentation.

Conference Recording

- The whole conference will be recorded. We appreciate your proper behavior and appearance.
- The recording will be used for the conference reports among the committee. It won't be distributed to or shared with anyone else, and it shall not be used for commercial or illegal purpose. It will only be recorded by the staff; the presenters are not allowed to record.

Agenda Overview

August 26, 2022

TIME	ROOM (ZOOM ID)	Event	
18:00-19:00 (CST)	Zoom ID:	Online device- Zoom Testing	
12:00-13:00(CEST)	858 5167 8548		
	Opening Ceremo	ny Chaired by Communication chair	
19:00-19:10(CST) 13:00-13:10(CEST)		weicome Address: Speech of a representative from Nankai University	
10:10 10:15(CST)		Opening Remarks:	
13:10-13:15(CEST)		Prof. Jie Lu, University of Technology Sydney Australia	
	Haihe Hall	History of FLINS:	
19:15-19:30(CST)	(海河厅)	Prof. Etienne E Kerre, Fuzziness and Uncertainty Modelling	
13:15-13:30(CEST)	Zoom ID:	Research Unit, Belgium	
	858 5167 8548	History of ISKE:	
19:30-19:35(CST)		Presented by Prof. Tianrui Li, Southwest Jiaotong	
13.30-13.35(CEST)		University, China	
19:35-19:45(CST)		Program Chair Report:	
13:35-13:45(CEST)		Prof. Qinglin Sun, Nankai University, China	
	Keynote Spee	ch Chaired by Prof. Luis Martinez	
	Haihe Hall	Keynote Speech I	
19:45-20:30(CST)	(海河厅)	Prof. Olaf Stursberg, University of Kassel, Germany	
13:45-14:30(CEST)	Zoom ID:	Title: Autonomous and Cooperative Decision-Making in	
	858 5167 8548	Cyber-Physical Systems	
	Keynote Speec	h Chaired by Prof. Javier Montero	
Haihe Ha		Keynote Speech II	
20:30-21:15(CST)	(海河厅)	Prof. Gabriella Pasi, University of Milano-Bicocca, Italy	
14:30-15:15(CEST)	Zoom ID:	Title: Coping with Misinformation Online: Open Issues and	
	858 5167 8548	Challenges	
Keynote Speech Chaired by Prof. Xianyi Zeng			
	Keynote Speech III		
21.15 22.00/CST)	Haihe Hall	Prof. Frédéric Vanderhaegen, Université Polytechnique	
15:15-16:00(CEST)		Hauts-de-France, France	
	(海河厅)	Title: Toward the "all-inclusive" concept for future human-IA	
	Zoom ID:	systems	
22.00-22.12(CST)	858 5167 8548	FLIN2024/ISKE2024 Presentation	
16:00-16:15(CEST)		Given by Prof. Javier Montero, Complutense University of	
		Madrid, Spain	

August 27, 2022

TIME	ROOM (ZOOM ID)	Event
	Meeting Room1 会议厅 1 Zoom ID: 863 1773 2954	Session 1- Chaired by Bo Du and Yongjun Shen
	Meeting Room2 会议厅 2 Zoom ID: 823 8361 6743	Session 2- Chaired by Qiang Wei and Hongjun Wang
13:00-16:15(CST)	Meeting Room3 会议厅 3 Zoom ID: 847 3262 5852	Session 3- Chaired by Zhongxin Liu and Jinghui Zhang
07:00-10:15(CEST)	Meeting Room4 会议厅 4 Zoom ID: 822 0077 4203	Session 4- Chaired by Tianrui Li and Kezhi Lu
	Meeting Room5 会议厅 5 Zoom ID: 817 9490 3145	Session 5- Chaired by Xianyi Zeng and Qinglin Sun
	Meeting Room6 会议厅 6 Zoom ID: 848 9100 0582	Session 6- Chaired by Martinez Luis and Jesper Holgersson
	16:15-16:45(CST)	10:15-10:45(CEST)
	E Kouroto Spooch I Cha	Break
Keynote Speech Chaired by Prof. Qinglin Sun		
16·45-17·30(CST)	weeung Room 全议 厅 1	Prof Xin Zhao Nankai University China
10:45-11:30(CEST)	Zoom ID.	Title: Automatic SCNT and its application in Animal
10.40-11.00(0E01)	852 2500 4212	Cloning
	Keynote Speech Chaired by Prof. Zhong Li	
Keynote Speech V		
	Meeting Room1	Prof. Kay Chen Tan, The Hong Kong Polytechnic
17:30-18:15(CST)	会议厅1	University, China
11:30-12:15(CEST)	Zoom ID:	Title: Recent Advances in Evolutionary Transfer
	852 2500 4212	Optimization
18:15-19:00(CST) 12:15-13:00(CEST)		
Break		
Closing Ceremony Chaired by Prof. Jie Lu		
	Cruise ship: Tourist	
19:00-20:30(CST)	No.1(游船,观光1号)	Awards (Best Paper, Best Student Paper)
13:00-14:30(CEST)	Zoom ID: 824 8569 3682	Presented by Prof. Xianyi Zeng, ENSAIT, France

Keynote Speakers



FLINS / ISKE

Prof. Olaf Stursberg

University of Kassel, Germany

Olaf Stursberg is Full Professor of Control and System Theory in the Department of Electrical Engineering and Computer Science at University of Kassel (Germany). He received a Ph.D. degree (Dr.-Ing.) in Engineering from University of Dortmund (Germany) in 2000, and he held positions as Postdoc at Carnegie Mellon University (USA), as Assistant Professor at University of Dortmund, and Associate Professor of Automation Systems at Technical University of Munich (Germany). Since 2009, he is head of the Control and System Theory Lab, and member of the directorate of the Institute of System Analytics and Control at University of Kassel. His current research interests include the control of networked and cyber-physical systems, optimal and predictive control, and the control of hybrid, discrete event, learning, and stochastic processes. He has published more than 200 papers in journals and proceedings of international conferences, and served in several program committees and editorial boards of different journals.

Title: Autonomous and Cooperative Decision-Making in Cyber-Physical Systems

Abstract: Systems, such as groups of autonomous vehicles, power grids, or production plants, require the orchestration of several locally controlled subsystems, which exchange information, which may be physically coupled, and often include the interaction with human users. The control design for such systems, which are often termed cyber-physical systems (CPS), is challenging since it has to account for suitable cooperation or coordination of the subsystems, as well as for uncertainty and possibly time-varying situations, which require controller adaptation and learning. The talk proposes different control design techniques to address these challenges: The first part describes how a hierarchy of optimization-based decision routines leads to safe cooperation of autonomous vehicles. The second part outlines an approach to use the principles of model predictive control of subsystems, but also to foresee and consider delay of communication in the network connecting the controlled subsystems. The following part addresses the question of how stochastically modeled uncertainties of the behavior of the CPS can be embedded into predictive control schemes. The final part reports on an approach to approximate the (often computationally demanding) step of synthesizing optimal control decisions by use of neural networks, while guaranteeing the satisfaction of constraints and convergence.



Prof. Gabriella Pasi

University of Milano-Bicocca, Italy

Gabriella Pasi is Full Professor and Head of the Department of Informatics, Systems, and Communication (DISCo) of the University of Milano-Bicocca. Within DISCo she leads the Information and Knowledge Representation, Retrieval, and Reasoning (IKR3) Lab. Her main research interests are related to Natural Language Processing, Information Retrieval, Recommender Systems, Text Mining, Knowledge Representation and Reasoning, User Modeling, Social Media Analytics. She is Associate Editor of several international journals, and she has delivered several keynote talks at international conferences. She has participated in the organization of several international events, in both roles of organizer and Program Chair. She has published more than 250 papers in international journals and books, and on the proceedings of international conferences.

Title: Coping with Misinformation Online: Open Issues and Challenges

Abstract: In the online world, where a large amount of content of different nature and origin is often spread without any form of reliable external control, the risk of running into misinformation is not negligible. In recent years, there is an increasing awareness of the possible risks of running into fake news, fake reviews, or health misinformation, which has raised the need to define automated systems able to identify truthful information. Several approaches have been proposed in the literature to automatically assess the truthfulness of content disseminated online. Most of them are data-driven approaches, based on machine learning techniques, but recently also model-driven approaches have been studied, in particular, approaches based on the Multi-Criteria Decision Making (MCDM) paradigm, and also based on the use of Knowledge Bases. Both of the latter types of approaches try to inject prior knowledge related to the problem under consideration. In this talk an overview of the approaches coping with the problem of misinformation detection will be addressed, with particular emphasis on model-driven approaches, their open issues, and current challenges. Their application to specific problems will also be addressed, as well as the problem of the evaluation of these systems.



Prof. Frédéric Vanderhaegen

Université Polytechnique Hauts-de-France, France

F. Vanderhaegen has a doctorate on Human and Industrial Automation. He was researcher at the National French Scientific Research Center (C.N.R.S.) from 1995 to 2005. He is Professor at the High School of Engineering on Applied sciences (INSA) of the Université Polytechnique Hauts-de-France (in Valenciennes, France) since 2005. He was the head of the Human-Machine Systems research team of the Laboratory of Industrial and Human Automation control, Mechanical engineering and Computer Science from 2004 to 2014. He co-chairs the Technical Committee on Human-Machine Systems of the International Federation on Automatic Control. He chairs the Research Group on Integrated Automation and Human-Machine systems (GRAISyHM). He co-chairs the research pole on Human Factor, Cognitive Engineering and Social Sciences (HORTENS) of the European Railway Research Network of Excellence (EURNEX) and his is co-editor-in-chief of Cognition Technology & Work journal. He is chairing several national and international projects (e.g., European projects from FP5, FP6 and FP7; National projects with the National Research Agency) and conferences (e.g. IFAC/IFIP/IFORS/IEA symposia on Human-Machine Systems, ERGO-IA), His current research topics relate to human reliability, cooperation, learning, resilience engineering, human-systems inclusion and human-machine systems.

Title: Toward the "all-inclusive" concept for future human-IA systems

Abstract: "I never lose. I either win or learn" Nelson Mandela. The "all-inclusive" concept is inspired from this Mandela's quote. On the one hand, any experience is beneficial individually and collectively and the human-machine inclusion paradigm has to be applied. On the other hand, human-machine systems have to include every required devices and skills to solve any situations. To do so, future human-IA systems have to adapt norms to the variability of users and not to adapt all users to norms. The talk will then present this new "all-inclusive" concept. It is based on four groups of skills to perceive, evaluate and anticipate problems: ability to cooperate, abilities to compete, abilities to learn and abilities to educate. The application of these skills depends on the resource availability and devices to act or interact with the controlled process or other decision-makers. The Competence-Availability-Possibility to Act model (i.e. the CAP model)) is proposed to represent a decision-maker and task sharing between human and Al-based systems will depend on the CAP model parameters and the consequences of their behaviors interpreted in term of benefits, costs and deficits or dangers (i.e., the BCD model). The proposal is up-to-now conceptual but some examples will introduce the interest of such new "all-inclusive" concept for future human-IA system to implement system plasticity and make human-supported Al and Al-supported human processes possible.



Prof. Xin Zhao

Nankai University, China

Xin Zhao is Chair Professor, Dean of Artificial Intelligence, Nankai University, Tianjin, China. He received the B.S. degree from Nankai University, Tianjin, P.R.China, in 1991, the M.S. degree from Shenyang Institute of Automation, CAS, Shenyang, P.R.China, in 1994, and the Ph.D. degree from Nankai University, in 1997, all in control theory and control engineering. He joined the faculty at Nankai University, Tianjin, P.R.China in 1997. He was a Visiting Professor in Center of Cell Control, Dept. of Mechanical & Aerospace Engineering, University of California at Los Angeles in 2009-2010. His research interests are in Mico-Nano Manipulation and System and Mathematical Biology. Prof. Zhao was the recipient of 1999 Excellent Professor Award, Nankai University, 2000 Inventory Prize, Tianjin Municipal Government, 2002 Excellent Professor Award of "College Key Teachers Fund", Ministry of Education, 2002 Excellent Professor Award of "Baogang Fund" and 2007 Program for New Century Excellent Talents in University, Ministry of Education. His team was supported by High Level Innovation Team in Tianjin Special Support Plan for Talents Development and Tianjin Key Areas Innovation Team (2017). His team conducted the first batch of robotic-operated alive cloned animals around the world in 2017 and received the Award of China's 10 Advancements in Intelligent Manufacturing Science and Technology in 2018.

Title: Automatic SCNT and its application in Animal Cloning

Abstract: The somatic cell nuclear transfer (SCNT), also known as animal clone, is one of most complex and challenging cell manipulation tasks. The SCNT involves multiple manipulation procedures, such as oocyte rotation, penetration, enucleation, and somatic cell injection, and inevitably causes intracellular damage to recipient oocytes during manipulation, resulting in only around 1-2% of reconstructed embryos developed into live cloned animals. The low success rate is considered to be the major limitation of extensive applications of the cloning technique. This study aims to increase development potential of reconstructed embryos by automatic SCNT. The main approach is to reduce the mechanical harm to oocyte and lost cytoplasm of oocyte through Robotic SCNT technique. In this talk, the automated polar body detection and nuclei visualization techniques were developed to perform precise enucleation through reducing the amount of lost cytoplasm in enucleation. Then, a robotic SCNT system was established and applied to pig cloning. We did thousands of robotic SCNT operations, and the blastocyst rate was improved from 10% (manual SCNT) to 27.5% (automatic SCNT). Two groups of reconstructed embryos were transferred to surrogate pigs, 24 cloned pigs were obtained at last.



Prof. Kay Chen Tan

The Hong Kong Polytechnic University, China

Kay Chen Tan is currently a Chair Professor (Computational Intelligence) of the Department of Computing, The Hong Kong Polytechnic University. He has coauthored 7 books and published over 200 peer-reviewed journal articles. Prof. Tan is currently the Vice-President (Publications) of IEEE Computational Intelligence Society, USA. He was the Editor-in-Chief of IEEE Transactions on Evolutionary Computation from 2015-2020 (IF: 11.554) and IEEE Computational Intelligence Magazine from 2010-2013 (IF: 11.356). Prof. Tan is an IEEE Fellow, an IEEE Distinguished Lecturer Program (DLP) speaker since 2012, and an Honorary Professor at University of Nottingham in UK. He is also the Chief Co-Editor of Springer Book Series on Machine Learning: Foundations, Methodologies, and Applications since 2020.

Title: Recent Advances in Evolutionary Transfer Optimization

Abstract: It is known that the processes of learning and the transfer of what has been learned are central to humans in problem-solving. However, the study of optimization methodology which learns from the problem solved and transfer what have been learned to help problem-solving on unseen problems, has been under-explored in the context of evolutionary computation. This talk will touch upon the topic of evolutionary transfer optimization (ETO), which focuses on knowledge learning and transfer across problems for enhanced evolutionary optimization performance. I will first present an overview of existing ETO approaches for problem-solving in evolutionary computation. I will then introduce some of our recent work on evolutionary multitasking. It will end with a discussion on future ETO research directions, covering various topics ranging from theoretical analysis to real-world applications.

Parallel Technical Sessions

Session 1: Artificial Intelligence, Intelligent Manufacturing Systems

Chair: Bo Du | Co-chair: Yongjun Shen

VENUE Meeting Room1(会议室 1)		
ZOOM ZOOM ID: 863 1773 2954		
IIME	August 27, 2022 13:00-16:15 (CST) 07:00-10:15(CEST)	
	Ittle: The Best of Translation: RNN-based Machine Translation and post-	
Paper ID: 75	editing	
13:00-13:15(CST)	Author(s): Xia He, Chai Taiqian, Guan Xin, Chen Mengting, Kan Yuchen and	
07:00-07:15(CEST)	Yuanzhou Zhu	
· · · · · · · · · · · · · · · · · · ·	Presenter: Xia He	
	Affiliation: Huaiyin Institute of Technology	
Paper ID: 23	Title: Unsupervised clustering ensemble for traffic level prediction	
13:15-13:30(CST)	Author(s): Jian Wang, Jin Guo, Yueying Li, Ran Hao and Hongjun Wang	
07:15-07:30(CEST)	Presenter: Jian Wan	
	Affiliation: Southwest Jiaotong University	
	Title: A principle of clause elimination: multi-literal implication modulo	
Paper ID: 59	resolution	
13:30-13:45(CST)	Author(s): Xinran Ning, Ying Xie, Guanfeng Wu, Yang Xu and Peiyao Liu	
07:30-07:45(CEST)	Presenter: Xinran Ning	
	Affiliation: Southwest Minzu University	
Paper ID: 21	Title: Correlation analysis of traffic accidents based on multiple model fusion	
13:45-14:00(CST)	Author(s): Jian Wang, Jin Guo, Shanshan Dong, Bin Bian and Hongjun Wang	
07:45-08:00(CEST)	Presenter: Jian Wang	
	Affiliation: Southwest Jiaotong University	
	Title: Lightweight fusion channel attention convolutional neural network for	
Paper ID: 50	helmet recognition	
14:00-14:15(CST)	Author(s): Chang Xu, Jinyu Tian and Zhiqiang Zeng	
08:00-08:15(CEST)	Presenter: Chang Xu	
	Affiliation: WuYi University	
	Title: Risk Evaluation of Differential Security Checks for Metro	
Paper ID: 43	Author(s): Erliang Chai, Tailin Chen, Zhanru Fu, Guibin Liao and Baofeng	
14:15-14:30(CST)	Miao	
08:15-08:30(CEST)	Presenter: Erliang Chai	
	Affiliation: Shenzhen Power Supply Co.,Ltd.	
Paper ID: 79	Title: Differential Evolution Variants for finding D-optimal Designs	
14:30-14:45(CST)	Author(s): Lyuyang Tong, Wengkee Wong, Bo Du, Ye Tian and Kaychen Tan	
08:30-08:45(CEST)	Presenter: Lyuyang Tong	

	Affiliation: Wuhan University
	Title: A Semi-Supervised Learning Method with Attention Mechanism for
Paper ID: 44	Pancreas Segmentation
14:45-15:00(CST)	Author(s): Yuhao Mo, Bo Peng, Caizheng Li and Fei Teng
08:45-09:00(CEST)	Presenter: Yuhao Mo
	Affiliation: Southwest Jiaotong University
	Title: Collaborative Control Model of Automatic Intersection based on Vehicle
Paper ID: 60	Networking Environment
15:00-15:15(CST)	Author(s): Jie Xian, Hailiang Zhao and Ling Yan
09:00-09:15(CEST)	Presenter: Jie Xian
	Affiliation: Southwest Jiaotong University
	Title: Formal Modeling of Mobile Agent Control System in Uncertain
Paper ID: 49	Environment
15:15-15:30(CST)	Author(s): Xia Wang, Yang Xu, Keming Wang, Jun Liu and Guanfeng Wu
09:25-09:30(CEST)	Presenter: Xia Wang
	Affiliation: Southwest Jiaotong University
	Title: Dynamic Document Clustering Method Based on Neighborhood System
Paper ID: 58	and Text Connotation
15:30-15:45(CST)	Author(s): Ling Yan, Hailiang Zhao and Jie Xian
09:30-09:45(CEST)	Presenter: Ling Yan
	Affiliation: Southwest Jiaotong University
	Title: Assessing Drivers' Hazard Prediction Ability: A Multiple Layer DEA
Paper ID: 41	Application
15:45-16:00(CST)	Author(s): Zegang Zhai, Qiong Bao and Yongjun Shen
09:45-10:00(CEST)	Presenter: Zegang Zhai
	Affiliation: Southeast University
	Title: Nano-scPLA: an efficient nucleating agent and reinforcement for
Paper ID: 5	sustainable green polymer poly (lactic acid)
16:00-16:15(CST)	Author(s): Minjie Tong, Bomou Ma and Xueli Wang
10:00-10:15(CEST)	Presenter: Minjie Tong
	Affiliation: Donghua University

Session 2: Computational intelligence, Manufacturing, Process andService

Automation

Chair: Qiang Wei | Co-chair: Hongjun Wang

VENUE | Meeting Room2(会议室 2) ZOOM | ZOOM ID: 823 8361 6743 TIME | August 27, 2022 13:00-16:15 (CST) | 07:00-10:15(CEST)

Paper ID: 83 13:00-13:15(CST) 07:00-07:15(CEST)	 Title: Interactive Game-based Device for Sustainability Education Among Teenagers Author(s): Qinglei Bu, Lechen Wu, Eng Gee Lim, Jie Sun and Quan Zhang Presenter: Qinglei Bu Affiliation: Xi'an Jiaotong-Liverpool University
Paper ID: 87 13:15-13:30(CST) 07:15-07:30(CEST)	 Title: Research on the system of smart wearable design factors for aging in place in the sustainable perspective Author(s): Yudian Zhang, Ruoan Ren and Zhengyang Lu Presenter: Yudian Zhang Affiliation: Zhejiang Sci-Tech University
Paper ID: 22 13:30-13:45(CST) 07:30-07:45(CEST)	 Title: Recognition of train hydraulic brake oil level and reservoir water level based on FCOS and HSV algorithm Author(s): Jianyang Zhao, Qiuyang Chen, Kaixin Pan, Biao Li, Jingsong Shan, Chengfu Sun and Weihong Ding Presenter: Jianyang Zhao Affiliation: Huaiyin Institute of Technology
Paper ID: 19 13:45-14:00(CST) 07:45-08:00(CEST)	 Title: Prediction of Crowdfunding Project Success: An Interpretable Deep Learning Model Enhanced with Persuasion Effect Author(s): Haoyu Yuan, Qiang Wei and Guoqing Chen Presenter: Haoyu Yuan Affiliation: Tsinghua University
Paper ID: 29 14:00-14:15(CST) 08:00-08:15(CEST)	 Title: Human action recognition based on transformer Author(s): Kehan Wu, Jian Wu, Wei Chen, Wenlu Yang and Hongjun Wang Presenter: Kehan Wu Affiliation: Southwest Jiaotong University
Paper ID: 71 14:15-14:30(CST) 08:15-08:30(CEST)	 Title: Linguistic Truth-valued Fuzzy Negation Operator Based on Lattice Implication Algebra Author(s): Pengsen Liu, Xinran Yang, Tie Hou, Qingkun Liu and Dongqiang Yang Presenter: Pengsen Liu Affiliation: Sichuan University
Paper ID: 84 14:30-14:45(CST) 08:30-08:45(CEST)	Title: A Generalized Linguistic Variable and A Generalized Fuzzy Set GFScom Author(s): Shengli Zhang, Jing Chen and Lei Yang Presenter: Shengli Zhang

	Affiliation: Minzu Normal University of Xingyi
	Title: Treelet-edge-weighted graph neural network for premise selection in first-order logic
Paper ID: 62	Author(s): Xue Ma, Xiaomei Zhong, Yongqi Lan, Xingxing He and Guoyan
14:45-15:00(CST)	Zeng
08:45-09:00(CEST)	Presenter: Xue Ma
	Affiliation: National-Local Joint Engineering Lab of System Credibility
	Automatic Verification
	Title: A Coupled-Inductor-Network-Based High-step-up Converter for
Paper ID: 39	renewable energy
15:00-15:15(CST) 09:00-09:15(CEST)	Author(s): Zhanru Fu, Ye Fan, Erliang Chai, Tailin Chen, Guibin Liao, Baofeng Miao and Mei Xiong
(Presenter: Zhanru Fu
	Affiliation: Shenzhen Power Supply Co.,Ltd.
Deper ID: 40	Ittle: A High-Frequency Input CCM PFC Converter for Bypass Switch Cabinet
15:15-15:30(CST)	
10.10-10.00(CST)	Presenter: Erliang Chai
03.20-03.00(0201)	Affiliation: Shenzhen Power Supply Co. Ltd.
	Title: A Transmission Line Icing Prediction Method Based on Informer Attention
	Learning
Paper ID: 16	Author(s): Jinqiang He, Ruihai Li, Bo Gong, Hourong Zhang, Dengjie Zhu,
15:30-15:45(CST)	Zenghao Huang, Yi Wen, Jianrong Wu and Huan Huang
09:30-09:45(CEST)	Presenter: Jinqiang He
	Affiliation: Electric Power Research Institute, CSG
	Title: A transmission line tension prediction model based on auxiliary
Paper ID: 77	information
15:45-16:00(CST)	Author(s): Jinqiang He, Ruihai Li, Bo Gong, Hourong Zhang, Zenghao Huang,
09:45-10:00(CEST)	Yi Wen, Jianrong Wu and Huan Huang
· · · ·	Presenter: Jinqiang He
	Affiliation: Electric Power Research Institute, China Southern Power Grid
Paper ID: 81	the Mind Dynasty
16:00-16:15(CST)	Author(s): Xiaoning Li, Kaiyuan Liu and Fei Gao
10:00-10:15(CEST)	Presenter: Xiaoning Li
10.00 10.10(0E01)	Affiliation: Xi'an Polytechnic University

Session 3: Intelligent wearable systems, Networked systems, Artificial Intelligence

Chair: Zhongxin Liu | Co-chair: Jinghui Zhang

	VENUE Meeting Room3(会议室 3) ZOOM ZOOM ID: 847 3262 5852
TIME	August 27, 2022 13:00-16:15 (CST) 07:00-10:15(CEST)
Paper ID: 32 13:00-13:15(CST) 07:00-07:15(CEST)	 Title: Influence of potential multi-condition data on soft sensor modeling Author(s): Jiwei Qian, Yishui Zhang, Zhenglei He, Yi Man, Jigeng Li and Mengna Hong Presenter: Jiwei Qian Affiliation: South China University of Technology
Paper ID: 38 13:15-13:30(CST) 07:15-07:30(CEST)	 Title: Digital twin for energy optimization in the paper drying process based on genetic algorithm and CADSIM Plus Author(s): Yishui Zhang, Jiwei Qian, Zhenglei He, Yi Man, Jigeng Li and Mengna Hong Presenter: Yishui Zhang Affiliation: South China University of Technology
Paper ID: 66 13:30-13:45(CST) 07:30-07:45(CEST)	Title: Detection of oocyte nucleus motion based on mean drift algorithm Author(s): Zuqi Wang, Xiangfei Zhao, Xin Zhao and Yaowei Liu Presenter: Zuqi Wang Affiliation: Nankai University
Paper ID: 13 13:45-14:00(CST) 07:45-08:00(CEST)	Title: An Improved Contradiction Separation Dynamic Deduction Method Based on Complementary Ratio Author(s): Guoyan Zeng, Yang Xu and Shuwei Chen Presenter: Guoyan Zeng Affiliation: Southwest Jiaotong University
Paper ID: 47 14:00-14:15(CST) 08:00-08:15(CEST)	Title: Latest Research Trends of Wearable Sensor based Data Modeling forFall Risk Prediction in Community-dwelling ElderlyAuthor(s): Manting Chen, Hailiang Wang, Lisha Yu, Eric Hiu Kwong Yeung,Jiajia Luo and Yang ZhaoPresenter: Manting ChenAffiliation: Sun Yat-sen University
Paper ID: 82 14:15-14:30(CST) 08:15-08:30(CEST)	Title: Designing Wearables for Assistive Correction of Children's Sitting Posture Author(s): Zhebin Xue and Qing Li Presenter: Qing Li Affiliation: Soochow University
Paper ID: 80 14:30-14:45(CST) 08:30-08:45(CEST)	Title: Intelligent computational techniques for implementation of sustainable circular economy: review and perspectives Author(s) : Xianvi Zeng and Zhebin Xue

The 15th International FILNS Conference on Machine learning, Multi agent and Cyber physical systems

	Presenter: Xianyi Zeng
	Affiliation: ENSAIT, University of Lille
Paper ID: 17 14:45-15:00(CST) 08:45-09:00(CEST)	Title: Learning Competitive Relationships with Relative Advantage Enhanced with Consumers' Perspective: A Heterogeneous Network Embedding Method Author(s): Jinghui Zhang, Qiang Wei and Guoqing Chen Presenter: Jinghui Zhang Affiliation: Tsinghua University
Paper ID: 20 15:00-15:15(CST) 09:00-09:15(CEST)	 Title: Formation Problem of First-order Multi-agent Systems with Bounded Control Input Author(s): Zhengquan Yang and Yang Li Presenter: Zhengquan Yang Affiliation: Civil Aviation University of China
Paper ID: 10 15:15-15:30(CST) 09:25-09:30(CEST)	 Title: Acoustic manipulation simulation based on the method of Deep Reinforcement Learning Author(s): Xiaodong Jiao, Hao Sun, Qinglin Sun and Jin Tao Presenter: Xiaodong Jiao Affiliation: Nankai University
Paper ID: 11 15:30-15:45(CST) 09:30-09:45(CEST)	 Title: A model-free synchronization solution for linear discrete-time multi-agent systems based on A3C algorithm Author(s): Ye Li, Zhongxin Liu and Zengqiang Chen Presenter: Ye Li Affiliation: Nankai University
Paper ID: 2 15:45-16:00(CST) 09:45-10:00(CEST)	 Title: Distributed adaptive virtual impedance control for power sharing in industrial microgrids with complex impedances Author(s): Peng Zhao, Kai Ma, Jie Yang and Shiliang Guo Presenter: Peng Zhao Affiliation: Yanshan University
Paper ID: 14 16:00-16:15(CST) 10:00-10:15(CEST)	Title: Distributed cooperative SLAM with adaptive Kalman filter and dynamic consensus Author(s): Chengwang Yang and Linying Xiang Presenter: Chengwang Yang Affiliation: Northeastern University at Qinhuangdao

Session 4: Knowledge Engineering and Management, Data Mining

Chair: Tianrui Li | Co-chair: Kezhi Lu

VENUE | Meeting Room4(会议室 4) ZOOM | ZOOM ID: 822 0077 4203 TIME | August 27, 2022 13:00-16:15 (CST) | 07:00-10:15(CEST)

Paper ID: 8 13:00-13:15(CST) 07:00-07:15(CEST)	Title: Fully Reusing Clause Method Based Standard Contradiction Separation Rule Author(s): Peiyao Liu, Yang Xu, Shuwei Chen and Feng Cao Presenter: Peiyao Liu Affiliation: Southwest Jiaotong University
Paper ID: 48 13:15-13:30(CST) 07:15-07:30(CEST)	Title: ExpandDetector: A Novel Platform of Android Malware Intelligent Detection Author(s): Jianfei Tang and Hui Zhao Presenter: Jianfei Tang Affiliation: XinJiang University
Paper ID: 42 13:30-13:45(CST) 07:30-07:45(CEST)	Title: BERT-RS: A Neural Personalized Recommender System with BERT Author(s): Kezhi Lu, Qian Zhang, Guangquan Zhang and Jie Lu Presenter: Kezhi Lu Affiliation: University of Technology Sydney
Paper ID: 28 13:45-14:00(CST) 07:45-08:00(CEST)	Title: A Missing Value Filling Model Based on Feature Fusion Enhanced Autoencoder Author(s): Liu Xinyao, Du Shengdong, Teng Fei and Li Tianrui Presenter: Liu Xinyao Affiliation: Southwest Jiaotong University
Paper ID: 46 14:00-14:15(CST) 08:00-08:15(CEST)	Title: A Named Entity Recognition Model Based on Context and Multi- Granularity Feature Fusion for Chinese Medical Text Author(s): Xiong Liao, Zhen Jia, Fan Zhang and Tianrui Li Presenter: Xiong Liao Affiliation: Southwest Jiaotong University
Paper ID: 12 14:15-14:30(CST) 08:15-08:30(CEST)	Title: A Hierarchical Reconciliation Least Square Method for LinearRegressionAuthor(s): Cong Zhang, Tianrui Li and Chongshou LiPresenter: Cong ZhangAffiliation: Southwest Jiaotong University
Paper ID: 18 14:30-14:45(CST) 08:30-08:45(CEST)	 Title: A Lifelong Spectral Clustering Based on Bayesian Inference Author(s): Zongshan Huang, Yan Yang and Yiling Zhang Presenter: Zongshan Huang Affiliation: Southwest Jiaotong University
Paper ID: 1 14:45-15:00(CST) 08:45-09:00(CEST)	Title: Prior Knowledge Modeling for Joint Intent Detection and Slot Filling Author(s): Chunning Hou, Jinpeng Li, Hang Yu, Xiangfeng Luo and Shaorong Xie

	Presenter: Chunning Hou
	Affiliation: Shanghai University
	Title: Modeling and Analysis of Networked discrete Event Systems By Petri
Paper ID: 9	Nets
15:00-15:15(CST)	Author(s): Ke Wu, Zhipeng Zhang and Chengyi Xia
09:00-09:15(CEST)	Presenter: Ke Wu
	Affiliation: Tianjin University of Technology
	Title: Bearing fault diagnosis based on STFT-SPWVD and improved
Paper ID: 57	convolutional neural network
15:15-15:30(CST)	Author(s): Hongyi Liu, Guanfeng Wu, Qi Cao and Peiyao Liu
09:25-09:30(CEST)	Presenter: Hongyi Liu
	Affiliation: Southwest Jiaotong University
	Title: Class-imbalance data preprocessing based on Generative Adversarial
	Networks
Paper ID: 26	Author(s): Linghao Zhang, Bo Pang, Chao Tang, Jie Zhang, Yuxin Zhong and
15:30-15:45(CST)	Hongjun Wang
09:30-09:45(CEST)	Presenter: Linghao Zhang
	Affiliation: State Gid Sichuan Electric Power Research Institute. Power
	Internet of Things Key Laboratory of Sichuan Province
	Title: TOPSIS decision making method based on linguistic formal context with
Paper ID: 74	fuzzy object
15:45-16:00(CST)	Author(s): Hongliang Zheng, Chang Qu, Meiqiao Sun and Li Zou
09:45-10:00(CEST)	Presenter: Hongliang Zheng
	Affiliation: Liaoning Normal University
Deper ID: 70	Title: Rule Extraction Based on Fuzzy Linguistic Concept Knowledge
	Author(s): Qing Guo, Yifan Lu, Kuo Pang, Xiaosong Cui and Li Zou
10.00-10:15(CST)	Presenter: Qing Guo
10.00-10.15(CEST)	Affiliation: Shandong Jianzhu University

Session 5: Intelligent wearable systems, artificial intelligence

Chair: Xianyi Zeng | Co-chair: Qinglin Sun

```
VENUE | Meeting Room5(会议室 5)
ZOOM | ZOOM ID: 817 9490 3145
TIME | August 27, 2022 13:00-16:15 (CST) | 07:00-10:15(CEST)
```

	Title: Application of Deep Dictionary Learning in automatic classification of
Paper ID: 6	woven fabric texture
13:00-13:15(CST)	Author(s): Bo Xing, Qingging Shao, Jun Wang and Xianvi Zeng
07:00-07:15(CEST)	Presenter: Bo Xing
	Affiliation: Donghua University
	Title: Online classification and diagnosis of COVID-19 symptoms by using an
	intelligent wearable system
Paper ID: 31	Author(c): Mara Juniar Nkangua, Yianyi Zang, Ludayia Kaabl and Yuyuan
13:15-13:30(CST)	Tao
07:15-07:30(CEST)	Tao Bregenter: Mare, Junier Nikengue
	Affiliations Universities ENGALT
	Amiliation: Univ. Lille, ENSATI
Paper ID: 25	Itte: Graph Learning for Incomplete Multi-view Spectral Clustering
13:30-13:45(CST)	Author(s): Win Sandar Htay, Yan Yang and Yiling Zhang
07:30-07:45(CEST)	Presenter: Win Sandar Htay
()	Affiliation: Union Assembly of Myanmar
	Title: Component Preserving and Adaptive Laplacian Eigenmaps for Data
Paper ID: 69	Reconstruction and Dimensionality Reduction
13:45-14:00(CST)	Author(s): Hanlin Zhang, Yu Ding, Hua Meng, Shuxia Ma and Zhiguo Long
07:45-08:00(CEST)	Presenter: Hanlin Zhang
	Affiliation: Southwest Jiaotong University
Paper ID: 86	Title: Sustainability Driven Apparel Supplier Selection
14:00_14:15(CST)	Author(s): Zhongyi Zhu, Zhebin Xue and Xianyi Zeng
14.00-14.15(CST)	Presenter: Zhongyi Zhu
00.00-00.13(0201)	Affiliation: Soochow University
	Title: Intelligent assessment approach to garment fit degree for garment e-
Depar ID: 72	mass customization using probabilistic neural network
	Author(s): Zhujun Wang, Yingmei Xing, Xuyuan Tao, Xianyi Zeng and Pacal
14.10-14.30(CST)	Bruniaux
00.15-00.30(CEST)	Presenter: Zhujun Wang
	Affiliation: Anhui Polytechnic University
Deper ID: 27	Title: Entity alignment between knowledge graphs via contrastive learning
	Author(s): Xiaohui Chen, Jie Hu, Shengdong Du and Fei Teng
14.30-14:43(UST)	Presenter: Xiaohui Chen
00.30-00.43(CEST)	Affiliation: Southwest Jiaotong University
Paper ID: 34	Title: Pixel-by-pixel classification of edges with machine learning techniques
14:45-15:00(CST)	Author(s): Pablo Flores-Vidal, Javier Castro and Daniel Gómez

24

08:45-09:00(CEST)	Presenter: Pablo Flores-Vidal
	Affiliation: Complutense University
Paper ID: 85 15:00-15:15(CST) 09:00-09:15(CEST)	Title: Deep Learning-based facial expression recognition Author(s): Hadi Parayil Nisamudeen and Li Zhang Presenter: Hadi Parayil Nisamudeen Affiliation: Royal Holloway, University of London
Paper ID: 88 15:15-15:30(CST) 09:25-09:30(CEST)	Title: Ensemble transfer learning for plant leave disease identification Author(s): Ranjith Thaivalappil Karunan and Li Zhang Presenter: Ranjith Thaivalappil Karunan Affiliation: Royal Holloway, University of London
Paper ID: 3 15:30-15:45(CST) 09:30-09:45(CEST)	 Title: Unmanned powered parafoil system altitude control via DDPG-optimized linear active disturbance rejection controller Author(s): Yuemin Zheng, Jin Tao, Qinglin Sun, Xianyi Zeng, Hao Sun, Mingwei Sun and Zengqiang Chen Presenter: Yuemin Zheng Affiliation: Nankai University
Paper ID: 15 15:45-16:00(CST) 09:45-10:00(CEST)	 Title: ADRC path following control based on double deep Q-network for parafoil system Author(s): Hong Zhu, Qinglin Sun, Feng Duan, Zengqiang Chen and Xianyi Zeng Presenter: Hong Zhu Affiliation: Nankai University
Paper ID: 30 16:00-16:15(CST) 10:00-10:15(CEST)	 Title: Fuzzy Lattice Reasoning (FLR) for decision-making on an ontology of constraints toward agricultural robot harvest Author(s): Vassilis Kaburlasos, Chris Lytridis, George Siavalas, Theodore Pachidis and Serafeim Theocharis Presenter: Vassilis Kaburlasos Affiliation: International Hellenic University

Session 6: Decision making methods

Chair: Martínez Luis | Co-chair: Jesper Holgersson

```
VENUE | Meeting Room6(会议室 6)
ZOOM | ZOOM ID: 848 9100 0582
TIME | August 27, 2022 13:00-16:15 (CST) | 07:00-10:15(CEST)
```

	Title: Comprehensive Minimum Cost Consensus for Analyzing the Cost of
	Different Agreed Solutions
Paper ID: 4	Author(s): Diego García-Zamora, Álvaro Labella, Rosa M. Rodríguez and
13:00-13:15(CST)	Luis Martínez
07:00-07:15(CEST)	Presenter: Diego García-Zamora
	Affiliation: University of Jaén
	Title: Asymmetric distance-based Comprehensive Minimum Cost Consensus
Paper ID: 7	Model
13:15-13:30(CST)	Author(s): He Wen, Rodríguez Rosa M, and Martínez Luis
07:15-07:30(CEST)	Presenter: He Wen
()	Affiliation: Universidad de Jaén
	Title: Enable Anomaly detection in Electroplating
Paper ID: 63	Author(s): Moussab Orabi, Kim Phuc Tran, Sebastien Thomassey and Philipp
13:30-13:45(CST)	Egger
07:30-07:45(CEST)	Presenter: Moussab Orabi
· · · ·	Affiliation: Rosenberger Hochfrequenztechnik GmbH & Co. KG
	Title: A New Fuzzy Trapezoidal Naive Bayes Network as basis for
Dener ID: 22	Assessment in Training based on Virtual Reality
	Author(s): Arthur Lopes, Jodavid Ferreira, Liliane Machado and Ronei
13.45-14.00(CST)	Moraes
07.43-08.00(CEST)	Presenter: Arthur Lopes
	Affiliation: Federal University of Paraıba
	Title: New Rules for Combining Classifiers Using Fuzzy Majority and Plurality
Paper ID: 35	Voting
14:00-14:15(CST)	Author(s): Thiago Batista, Ronei Moraes and Benjamin Bedregal
08:00-08:15(CEST)	Presenter: Thiago Batista
	Affiliation: Federal University of Paraíba
	Title: A linguistic ELECTRE III method for heterogeneous multicriteria ranking
Paper ID: 37	problems
14:15-14:30(CST)	Author(s): Juan Carlos Leyva Lopez, Jesus Jaime Solano Noriega, Jorge
08:15-08:30(CEST)	Anselmo Rodriguez Castro and Luis Martinez Lopez
	Presenter: Juan Carlos Leyva Lopez
	Affiliation: Universidad Autónoma de Occidente
Paper ID: 51	Title: Research on the coordination of logistics service supply chain with the
14:30-14:45(CST)	participation of Non-car Operating Carrier
08:30-08:45(CEST)	Author(s): Xiaoping Qiu, Yanjiao Wu and Shasha Liu

	Presenter: Xiaoping Qiu
	Affiliation: Southwest Jiaotong University
Paper ID: 54 14:45-15:00(CST) 08:45-09:00(CEST)	 Title: Evaluation of a financial technology project decision in the central bank of Oman by the multistage one-shot decision-making approach Author(s): Mohammed Al-Shanfari Presenter: Mohammed Al-Shanfari Affiliation: Yokohama National University
Paper ID: 78 15:00-15:15(CST) 09:00-09:15(CEST)	Title: Some discussions of Yager preference aggregation with uncertaintyAuthor(s): Lesheng Jin, Ronald R. Yager, Zhen-Song Chen and Martinez LuisPresenter: Lesheng JinAffiliation: Nanjing Normal University
Paper ID: 53 15:15-15:30(CST) 09:25-09:30(CEST)	Title: Risk Evaluation of Differential Security Checks for Metro Author(s): Xueying Liu, Ning Zhang, Boqing Chu and Guang Ji Presenter: Xueying Liu Affiliation: Southeast University
Paper ID: 55 15:30-15:45(CST) 09:30-09:45(CEST)	 Title: Scoped Literature Review of Artificial Intelligence Marketing Adoptions for Ad Optimization with Reinforcement Learning Author(s): Johannes Sahlin, Håkan Sundell, Gideon Mbiydzenyuy and Jesper Holgersson Presenter: Johannes Sahlin Affiliation: University of Borås
Paper ID: 56 15:45-16:00(CST) 09:45-10:00(CEST)	Title: Exploring Consumers' Discernment Ability of AutogeneratedAdvertisementsAuthor(s): Johannes Sahlin, Håkan Sundell, Gideon Mbiydzenyuy, HåkanAlm, Jesper Holgersson, Christoffer Suhonen and Tommy HjelmPresenter: Johannes SahlinAffiliation: University of Borås
Paper ID: 64 16:00-16:15(CST) 10:00-10:15(CEST)	Title: Examining QFD based Omnichannel Capacity of Service Industries with Interval Type-2 Hesitant DEMATEL-TOPSIS Author(s): Luis Martínez, Rosa M. Rodríguez, Hasan Dinçer, Serhat Yuksel and Tuba Bozaykut Bük Presenter: Luis Martínez Affiliation: University of Jáen

2022		
Memo		

Memo		