

● 2026 IEEE 15TH INTERNATIONAL CONFERENCE ON CONSUMER ELECTRONICS - BERLIN (ICCE-BERLIN)

IEEE · CONFERENCE N° 71611 · BERLIN, GERMANY

ICCE_Berlin 2026

ABOUT THE CONFERENCE

ICCE-Berlin is the established forum for innovative research in all areas of consumer electronics and takes place in conjunction with the renowned International Trade Show on Consumer Electronics IFA (Internationale Funkausstellung Berlin), which opens its doors in Berlin September 4-8, 2026. ICCE-Berlin brings together an international audience of leading experts to present research findings, share visions and ideas, learn about the latest technologies, and build professional networks.

VENUE

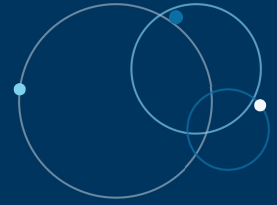
Berlin, Germany

DATES

5 — 7 September 2026

ALL TIMES CEST (UTC+02:00)

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PROGRAMME & BOOK OF ABSTRACTS

2026 IEEE 15th International Conference on Consumer Electronics - Berlin (ICCE-Berlin)

This booklet contains the full technical programme with session and room allocations, generated directly from the conference database. The digital edition is fully hyperlinked: every entry in the contents, every session reference and every author-index entry jumps to its page.

IEEE CONFERENCE N°

71611

WEB

icce-berlin.org/2026/index.php

DATES

5 — 7 September 2026

ORGANISER

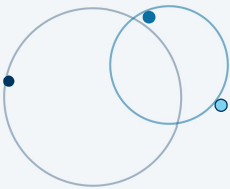
IEEE

VENUE

Berlin, Germany

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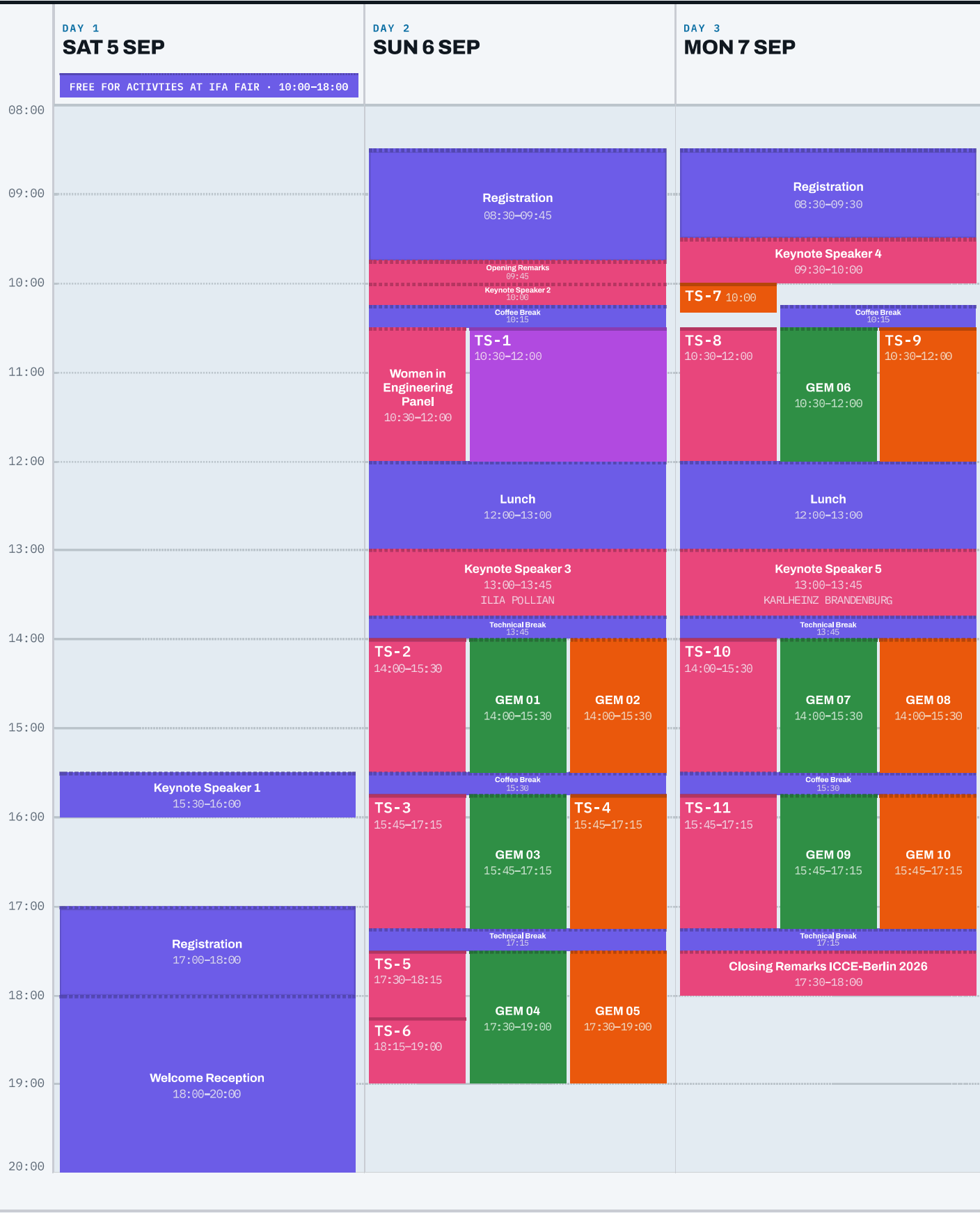
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	Day 2 · Sunday 6 — Orals · Registration · Opening Remarks · Keynote Speaker	06 – 12
	Day 3 · Monday 7 — Orals · Registration · Keynote Speaker · Coffee Break	13 – 18
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Week at a glance.

5 – 7 SEPTEMBER 2026 · CEST



General Sessions.

The programme's keynotes and tutorials. Each is listed with the day it runs, its hours and where to find it.

KEYNOTE SPEAKERS

DAY 1 · SAT 5 SEP | 15:30-16:00 | IFA HALL B - RETAIL INNOVATION ZONE STAGE (CITYCUBE BERLIN)

Keynote Speaker 1

Thomas Wiegand

Trustworthy Multimedia Communication in the Age of AI Deep Fakes

icce-berlin.org/2026/speaker.php?speaker=thomas-wiegand

DAY 2 · SUN 6 SEP | 10:00-10:15 | CORINTH

Keynote Speaker 2

Peter Zyprian

Discover IFA 2026

icce-berlin.org/2026/speaker.php?speaker=peter-zyprian

DAY 2 · SUN 6 SEP | 13:00-13:45 | CORINTH

Keynote Speaker 3

Ilia Pollian

The Quantum Inflection Point: Advantage, Error Correction, and Your Crypto

icce-berlin.org/2026/speaker.php?speaker=ilia-pollan

DAY 3 · MON 7 SEP | 09:30-10:00 | CORINTH

Keynote Speaker 4

Steve Mann

Sousveillant Intelligence to Safeguard Humanity and Earth, Water, and Air: Extending Wearable Tech to Enphibious Vehicraft

icce-berlin.org/2026/speaker.php?speaker=steve-mann

DAY 3 · MON 7 SEP | 13:00-13:45 | CORINTH

Keynote Speaker 5

Karlheinz Brandenburg

50 years of digital audio technologies

icce-berlin.org/2026/speaker.php?speaker=karlheinz-brandenburg

DAY ONE

SATURDAY

5 SEPTEMBER 2026

01

SESSIONS	ORAL PAPERS	ONLINE	PAPERS TOTAL
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Program.

10:00 – 20:00

10:00-18:00	Free for Activties at IFA Fair	IFA FAIR
15:30-16:00	Keynote Speaker 1	IFA HALL B - RETAIL INNOVATION ZONE STAGE (CITYCUBE BERLIN)
17:00-18:00	Registration	REGISTRATION AREA
18:00-20:00	Welcome Reception	HILTON MAIN RESTAURANT CHOU CHOU

DAY TWO

SUNDAY

6 SEPTEMBER 2026

02

06

SESSIONS

19

ORAL PAPERS

—

ONLINE

19

PAPERS TOTAL

Program.

08:30 – 19:00

08:30–09:45	Registration	REGISTRATION AREA
09:45–10:00	Opening Remarks	CORINTH
10:00–10:15	Keynote Speaker 2	CORINTH
10:15–10:30	Coffee Break	COFFEE BREAK AREA
10:30–12:00	Women in Engineering Panel	CORINTH
10:30–12:00 · TS-1	Online Session#1	ONLINE SESSIONS
12:00–13:00	Lunch	LUNCH AREA
13:00–13:45	Keynote Speaker 3	CORINTH
13:45–14:00	Technical Break	BREAK AREA
14:00–15:30 · TS-2	Vision, Voice and Speech Systems	CORINTH
14:00–15:30	GEM 01	HUMBOLDT
–	+ 10 more — see the session pages that follow	

TS-1 · ORAL · SUN 6 SEP

Online Session#1.

ONLINE SESSIONS · 10:30 – 12:00

CHAIR · NIKOLAOS ATHANASIOS ANAGNOSTOPOULOS (UNIVERSITY OF PASSAU)

3 PAPERS

01 TA-SAINT for Chronic Metabolic Disease Risk Prediction Using Temporal-Aware Contrastive Learning

Q. Lu¹, S. Gao², J. Wang³, T. Zhao², H. Wang³

(1) SCHOOL OF ENGINEERING SCIENCE, UNIVERSITY OF CHINESE ACADEMY OF SCIENCES, CHINA · (2) SCHOOL OF MATHEMATICAL SCIENCES, UNIVERSITY OF CHINESE ACADEMY OF SCIENCES, CHINA · (3) WANG QI ACADEMY, BEIJING UNIVERSITY OF CHINESE MEDICINE, CHINA

02 Beyond Photorealism: Consumer Perceptions Across XR Virtual Sales Agent Paradigms

Y. Li, A. Hogue

ONTARIO TECH UNIVERSITY, CANADA

03 An Embedded Voice Assistant for Conversational Memory Support

P. Kalay, A. Qayyum

COLUMBIA UNIVERSITY, UNITED STATES

TS-2 · ORAL · SUN 6 SEP

Vision, Voice and Speech Systems.

CORINTH · 14:00 – 15:30

CHAIR · TOLGA ARUL (BARKHAUSEN INSTITUTE)

5 PAPERS

-
- 01** **AURORA: Programmable Autostereoscopic Input Layer for Optical Neural Networks**
A. Grasnack
IU INTERNATIONAL UNIVERSITY OF APPLIED SCIENCES, GERMANY
-
- 02** **A vision simulation system that takes into account the individual differences of people with colour vision deficiency**
S. Yamashita¹, E. Hanada²
(1) TEXNOS, INC., JAPAN · (2) SAGA UNIVERSITY, JAPAN
-
- 03** **Phonologically Aware Mora Coverage: A Gamified Shiritori Corpus for Japanese ASR Personalization in Consumer Care Robotics**
R. Nakashima, P. Phyo Kyaw, K. Sakai, T. Sugiyama, T. Zin
UNIVERSITY OF MIYAZAKI, JAPAN
-
- 04** **Noise Suppression Using Phase-Aware Spatiotemporal Spectral Image Restoration**
Y. Morozumi, T. Toya, K. Ozawa
UNIVERSITY OF YAMANASHI, JAPAN
-
- 05** **On the Impact of Speech-to-Text Errors on User-Perceived Relevance in End-to-End DTV Recommendation Systems**
T. Souza¹, S. oliveira², P. Kimura¹, O. Alves¹, E. de Lima Filho¹, E. Wesley Almeida do Nascimento³, R. Fabrício¹, L. C. Cordeiro⁴
(1) TPV, BRAZIL · (2) UFAM, BRAZIL · (3) VIRTUS/UFCG, BRAZIL · (4) THE UNIVERSITY OF MANCHESTER, UNITED KINGDOM
-

TS-3 · ORAL · SUN 6 SEP

Special Session on AI in Healthcare #1.

CORINTH · 15:45 – 17:15

4 PAPERS

CHAIR · NIKOLAOS ATHANASIOS ANAGNOSTOPOULOS (UNIVERSITY OF PASSAU)

-
- 01** **Risk-Aware Explainable Machine Learning for Missense Variant Pathogenicity Prediction from Anonymized Genomic Profiles**
B. BAYRAM, G. Açar, Ö. Altıntaş
ISTANBUL KULTUR UNIVERSITY, TURKEY
-
- 02** **The Visual Handshake: Vision-Language Models as Semantic Passability Verifiers for Emergency Robotics in Ambient Assisted Living**
M. Henzel¹, M. Sugaya², F. Thiesing¹
(1) OSNABRÜCK UNIVERSITY OF APPLIED SCIENCES, GERMANY · (2) SHIBAURA INSTITUTE OF TECHNOLOGY, JAPAN
-
- 03** **Information-Bottleneck Quantized Expectation-Maximization Algorithm for LDPC-Coded Discrete Memoryless Channels**
B. Tseng, B. Tseng, W. Wiriya, B. Kurkoski, K. Tanaka
JAPAN ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY, JAPAN
-
- 04** **Cost-Effective Reliability Hardening of Lightweight CNNs for Mobile Brain-Tumor MRI Classification**
C. Kao¹, **C. Wang**¹, J. Wu¹, Y. Lin¹, C. Lin²
(1) YUAN ZE UNIVERSITY, TAIWAN · (2) NATIONAL TAIWAN NORMAL UNIVERSITY, TAIWAN
-

TS-4 · ORAL · SUN 6 SEP

Special Session on Broadcasting.

DRESDEN · 15:45 – 17:15

CHAIRS · MATTEO ANEDDA (UNIVERSITY OF CAGLIARI) · PETER SIEBERT (IEEE BTS)

5 PAPERS

-
- 01** **Near-Real-Time Traffic Classification in O-RAN: A Layer 2 Approach at the 5G Edge**
E. Pilia, G. Pettorru, M. Anedda, M. Murrone
UNIVERSITY OF CAGLIARI, ITALY
-
- 02** **Cramer-Rao Bound (CRB)-Aware Knapsack-Based Resource Allocation for UAV-Assisted Joint Communication and Sensing in 6G Networks**
G. Muntean, B. agarwal
DUBLIN CITY UNIVERSITY, IRELAND
-
- 03** **Satellite-Edge Computing for Remote Monitoring: an Experimental Analysis**
S. Pizzi¹, A. Tropeano¹, M. Giordani², G. Araniti¹, A. Molinaro¹
(1) DIIES DEPT., UNIVERSITY MEDITERRANEA OF REGGIO CALABRIA, ITALY, AND CNIT, ITALY, ITALY · (2) DEI DEPT., UNIVERSITY OF PADOVA, ITALY, ITALY
-
- 04** **Broadcast Dialog Intelligibility Measurement beyond Loudness-based Metrics**
R. Huber¹, H. Baumgartner², J. Rennies³
(1) FRAUNHOFER IDMT, GERMANY · (2) FRAUNHOFER INSTITUTE FOR DIGITAL MEDIA TECHNOLOGY IDMT, BRANCH HEARING, SPEECH AND AUDIO TECHNOLOGY HSA, OLDENBURG, GERMANY · (3) FRAUNHOFER INSTITUTE FOR DIGITAL MEDIA TECHNOLOGY IDMT, DEPARTMENT OF MEDICAL PHYSICS AND ACOUSTICS, CLUSTER OF EXCELLENCE "HEARING4ALL" OLDENBURG, BRANCH HEARING, SPEECH AND AUDIO TECHNOLOGY HSA, UNIVERSITY OF OLDENBURG, GERMANY JAN.RENNIES-, GERMANY
-
- 05** **Parallel Implementation of VVC Transforms by Using NVIDIA GPUS**
A. Simsek, G. Dunder
BOGAZICI UNIVERSITY, TURKEY
-

TS-5 · ORAL · SUN 6 SEP

IEEE CTSoc Germany Chapter Meeting (along with CTSoc Egypt & SSCS Germany).

CORINTH · 17:30 – 18:15

CHAIR · NIKOLAOS ATHANASIOS ANAGNOSTOPOULOS (UNIVERSITY OF PASSAU)

1 PAPER

01 A Hybrid Physics-Informed and Data-Driven Framework for Component-Level Smartphone Battery Life Prediction

Y. Zhang, M. Qu, Z. Jia, H. Guo, Y. Peng, J. Luan

SHANDONG UNIVERSITY, CHINA

TS-6 · ORAL · SUN 6 SEP

IEEE VTS Germany Chapter Meeting.

CORINTH · 18:15 – 19:00

1 PAPER

CHAIR · NIKOLAOS ATHANASIOS ANAGNOSTOPOULOS (UNIVERSITY OF PASSAU)

01

Distance-Based Risk Analysis Using Monocular BEV Transformation for Blind-Spot Assistance

L. Martinho¹, A. Cavalcante¹, O. Maia¹, W. Pereira¹, E. Filho¹, R. Fabricio¹, L. Pessoa², A. Bessa², W. Silva², C. Carvalho², I. Correia³, L. Muro³, M. Oliveira³, M. Said³

(1) TPV TECH, BRAZIL · (2) UFAM, BRAZIL · (3) FPF TECH, BRAZIL

DAY THREE

MONDAY

7 SEPTEMBER 2026

03

05

SESSIONS

21

ORAL PAPERS

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ONLINE

21

PAPERS TOTAL

Program.

08:30 – 18:00

08:30–09:30	Registration	REGISTRATION AREA
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10:00–10:20 · TS-7	Online Session #2	DRESDEN
10:15–10:30	Coffee Break	COFFEE BREAK AREA
10:30–12:00 · TS-8	Special Session on AI-Assisted Security, Trust, and Resilience	CORINTH
10:30–12:00	GEM 06	HUMBOLDT
10:30–12:00 · TS-9	Special Session on AI for Intelligent Mobility & Beyond	DRESDEN
12:00–13:00	Lunch	LUNCH AREA
13:00–13:45	Keynote Speaker 5	CORINTH
13:45–14:00	Technical Break	BREAK AREA
14:00–15:30 · TS-10	Special Session on Healthcare #2	CORINTH
–	+ 8 more — see the session pages that follow	

TS-7 · ORAL · MON 7 SEP

Online Session #2.

DRESDEN · 10:00 – 10:20

1 PAPER

CHAIR · NIKOLAOS ATHANASIOS ANAGNOSTOPOULOS (UNIVERSITY OF PASSAU)

01 Explainable Multi-Task Small Language Models for Smoking Behavior Detection from Danish EHRs

A. Sorayaie Azar¹, U. Wiil¹, J. Bagherzadeh Mohasefi¹, M. Hostgaard Bang Henriksen², C. Lohman Barsen³, O. Hilberg⁴, A. Naemi¹, A. Ebrahimi¹

(1) SDU HEALTH INFORMATICS AND TECHNOLOGY, MMI, UNIVERSITY OF SOUTHERN DENMARK, ODENSE, DENMARK, DENMARK · (2) DEPARTMENT OF ONCOLOGY, LILLEBAELT HOSPITAL, UNIVERSITY HOSPITAL OF SOUTHERN DENMARK VEJLE, DENMARK, DENMARK · (3) DEPARTMENT OF REGIONAL HEALTH RESEARCH, UNIVERSITY OF SOUTHERN DENMARK ODENSE, DENMARK, DENMARK · (4) DEPARTMENT OF INTERNAL MEDICINE, LILLEBAELT HOSPITAL, UNIVERSITY HOSPITAL OF SOUTHERN DENMARK VEJLE, DENMARK, DENMARK

TS-8 · ORAL · MON 7 SEP

Special Session on AI-Assisted Security, Trust, and Resilience.

CORINTH · 10:30 – 12:00

CHAIRS · NIKOLAOS ATHANASIOS ANAGNOSTOPOULOS (UNIVERSITY OF PASSAU) · INDU SINGH (DELHI TECHNOLOGICAL UNIVERSITY)

5 PAPERS

- 01

MuCAF-Net: Fuzzy-Enhanced Multi-Head Cross-Attention Fusion with Metaheuristic Optimization for Trimodal Biometric Recognition

K. Sobti¹, I. Singh¹, T. Arul², A. Pradhan³, P. Tripathi¹, Y. Malik¹

(1) DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, DELHI TECHNOLOGICAL UNIVERSITY, DELHI, INDIA, INDIA · (2) SECURE DIGITAL SYSTEMS GROUP, BARKHAUSEN INSTITUTE, DRESDEN, GERMANY, GERMANY · (3) DEPARTMENT OF ELECTRICAL ENGINEERING, DELHI TECHNOLOGICAL UNIVERSITY, DELHI, INDIA, INDIA
- 02

Auditing Machine Unlearning in EEG Biometrics: Are Identities Truly Forgotten?

A. George, J. Posegga

UNIVERSITY OF PASSAU, GERMANY
- 03

Lightweight Skeleton Feature Fusion for Video Anomaly Detection

Z. Liou¹, C. Hsu¹, S. Huang², C. Lu¹

(1) DEPARTMENT OF ELECTRICAL ENGINEERING, NATIONAL TAIWAN NORMAL UNIVERSITY, TAIWAN · (2) DEPARTMENT OF ARTIFICIAL INTELLIGENCE, TAMKANG UNIVERSITY, TAIWAN
- 04

Mapping Security Threats and Countermeasures in the Framework of the Internet of Things Using Risk-Integrated Attack Trees

T. Arul¹, S. Gossain², N. Anagnostopoulos²

(1) BARKHAUSEN INSTITUTE, GERMANY · (2) UNIVERSITY OF PASSAU, GERMANY
- 05

Human–AI Interaction for Smart Dairy Cow Monitoring with Spatial Digital Twin Interface

P. Phyto Kyaw¹, R. Nakashima¹, A. Thu Moe¹, M. Aikawa¹, I. Kobayashi¹, T. Zin¹, P. Tin²

(1) UNIVERSITY OF MIYAZAKI, JAPAN · (2) UNIVERSITY OF MIYAZAKI, JAPAN

TS-9 · ORAL · MON 7 SEP

Special Session on AI for Intelligent Mobility & Beyond.

DRESDEN · 10:30 – 12:00

CHAIR · TOLGA ARUL (BARKHAUSEN INSTITUTE)

5 PAPERS

01 Lightweight Condition-Aware Adaptive Preprocessing for Automotive Perception

D. Amoedo¹, J. Correa¹, L. Pessoa¹, E. Mattos¹, A. Bessa¹, I. Cabral¹, W. Junior¹, C. Carvalho¹, L. Martinho², O. Maia², E. Filho², R. Junior², I. Correia³, S. Silva³, M. Said³

(1) UFAM, BRAZIL · (2) TPV TECH, BRAZIL · (3) FPF, BRAZIL

02 Mapping Extended Reality Threats in Connected Vehicles with Attack-Defense Tree

M. Adam¹, M. Mollah², K. Lee²

(1) DEPT. OF INFORMATION SCIENCE TECHNOLOGY, UNIVERSITY OF HOUSTON, HOUSTON, UNITED STATES · (2) DEPT. OF INFORMATION SCIENCE TECHNOLOGY, UNIVERSITY OF HOUSTON, UNITED STATES

03 Smartphone-Based Display Luminance Measurement for Energy Efficiency Evaluation in Video Streaming: A Comparative Study of OLED and QLED Technologies

A. Josef Anton Fischer, R. Seeliger, M. Nguyen

FRAUNHOFER FOKUS, GERMANY

04 DPU Accelerated CLIP-Based Implementation for Edge AI Video Analytics

B. Mosutiu¹, T. Schumann², A. Fazakas¹, S. Hintea¹

(1) TECHNICAL UNIVERSITY OF CLUJ-NAPOCA, ROMANIA · (2) HOCHSCHULE DARMSTADT - UNIVERSITY OF APPLIED SCIENCES, GERMANY

05 Learning-Based Dynamic Feedback of Best Companion Grouping for Multi-user MIMO

I. kim

SAMSUNG, SOUTH KOREA

TS-10 · ORAL · MON 7 SEP

Special Session on Healthcare #2.

CORINTH · 14:00 – 15:30

CHAIR · MOUSTAFA NAWITO (IU INTERNATIONAL UNIVERSITY OF APPLIED SCIENCES)

5 PAPERS

01 Modeling Human State Transitions Under Task and Indoor Environmental Conditions Toward Adaptive Environmental Control

K. KAWAGUCHI¹, H. Hara¹, Y. Ohsita², S. Seno¹, M. Murata¹

(1) GRADUATE SCHOOL OF INFORMATION SCIENCE AND TECHNOLOGY, THE UNIVERSITY OF OSAKA, SUITA, OSAKA, JAPAN, JAPAN · (2) D3 CENTER, THE UNIVERSITY OF OSAKA, TOYONAKA, OSAKA, JAPAN, JAPAN

02 Personalized Social Media Filtering Framework: Reducing Appearance Anxiety Among Individuals with Acne

I. HUANG¹, N. Tai²

(1) NATIONAL TAIPEI UNIVERSITY OF TECHNOLOGY, TAIWAN · (2) DEPARTMENT OF INTERACTION DESIGN, NATIONAL TAIPEI UNIVERSITY OF TECHNOLOGY TAIPEI, TAIWAN

03 BheemSense: A Stretchable E-Textile Topper Capable of Adapting to Complex 3D Deformations in Digital Healthcare Applications

H. Phan¹, D. Payne¹, M. Asadnia¹, N. Rabey², N. Autar²

(1) MACQUARIE UNIVERSITY, AUSTRALIA · (2) BHEEM HEALTH, AUSTRALIA

04 Capacity over TFLOPS: Memory-Centric Deployment of Large Clinical Language Models on Consumer CPUs

E. Yune¹, U. Majeed¹, **M. Balan²**

(1) BALKEUM LABS, SOUTH KOREA · (2) CLAREMONT GRADUATE UNIVERSITY, UNITED STATES

05 A Gamut-Independent Saturated-Red Test for Photosensitive Epilepsy Detection in HDR Video

Y. Tong, Y. Tao, M. Tsukada

THE UNIVERSITY OF TOKYO, JAPAN

TS-11 · ORAL · MON 7 SEP

Physics-inspired Methods and Solutions.

CORINTH · 15:45 – 17:15

CHAIR · NIKOLAOS ATHANASIOS ANAGNOSTOPOULOS (UNIVERSITY OF PASSAU)

5 PAPERS

01 Coefficient Bit-Width Reduction for Ising Models Reducing Partition Types for Topologically Isomorphic Partition

S. Tomita¹, M. Tawada², N. Togawa²

(1) UNIVERSITY, JAPAN · (2) DEPT. OF COMPUTER SCIENCE AND COMMUNICATIONS ENGINEERING, WASEDA UNIVERSITY, JAPAN

02 Applying QUBO Simplification to the Base Station Power Source Optimization Problem in Ising Machine Annealing

S. Inaba¹, C. Dogo², K. Saito², M. Tawada¹, N. Togawa¹

(1) WASEDA UNIVERSITY, JAPAN · (2) KDDI RESEARCH, INC., JAPAN

03 Program List Selection Using an Ising Machine for Diverse TV News Program Recommendation

S. Kaji¹, Y. Hagio², M. Miyazaki², D. Kobayashi², Y. Shimano², N. Togawa¹

(1) DEPT. OF COMPUTER SCIENCE AND COMMUNICATIONS ENGINEERING, WASEDA UNIVERSITY, JAPAN · (2) SCIENCE & TECHNOLOGY RESEARCH LABORATORIES, NHK, JAPAN

04 Minimal-Structural-Change Spin-Variable Reduction Method for Quadratic Assignment Problems

R. Aoki¹, T. Shirai², N. Togawa¹

(1) DEPT. OF COMPUTER SCIENCE AND COMMUNICATIONS ENGINEERING, WASEDA UNIV., JAPAN · (2) WASEDA INSTITUTE FOR ADVANCED STUDY, WASEDA UNIV., JAPAN

05 A Compact Ion-Wind Vortex Ring Generator for Silent Airflow Control

N. Maeda, H. Mori

SOKEN, INC., JAPAN

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