ISCE INTERNATIONAL SOCIETY FOR COMPUTERIZED ELECTROCARDIOLOGY

49th Annual Conference

Sunday, March 23 - Thursday, March 27, 2025

Hotel Caesius, Lake Garda Italy

CONFERENCE CHAIR

Mary Carey, PhD
University of Rochester
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CONFERENCE CO-CHAIR

Claus Graff, Ph D
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ISCE 2025 CONFERENCE SUPPORTERS:

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Philips Healthcare
Powerful Medical
PulseAI
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ZOLL Services LLC

CONFERENCE PROGRAM

Sunday, March 23

Central European Time	Session
19:30 - 22:00	Registration
19:30 - 22:00	**Opening Reception**

Monday, March 24

07:00 - 08:00	Registration
07:00 - 08:00	Breakfast
07:00 - 08:00	ISCE Board of Directors Breakfast Meeting
08:00 - 08:10	**Welcome and Opening Remarks**
	Conference Chair: Mary Carey, University of Rochester, USA
08:10 - 09:45	**Tutorial: AI Essentials, Common Pitfalls, and Clinical Use**
	Chairs: Claus Graff & Manolis Kargiantoulakis
08:10 - 08:15	Chair Overview
08:15 - 08:45	Fundamental Concepts in AI/ML
	Manolis Kargiantoulakis, GE HealthCare, USA
08:45 - 09:15	Explainable AI (XAI) in ECG Analysis: Transparency, Interpretation and Explanation
	Jørgen Kanters, University of Copenhagen, Denmark
09:15 - 09:45	Reduced 12 - Lead Diagnostic ECG Analysis – An AI modeling Approach
	Joel Xue, Alivecor Inc., Mountain View, USA
09:45 - 10:00	**BREAK**
10:00 - 12:05	**Session I: Application of AI: State of the Art on Current Cardiology Topics**
	Chairs: Geoff Tison & Brian Young
10:00 - 10:05	Chair Overview
10:05 - 10:35	The Appropriate Use of AI in ECG Analysis: Potential and Pitfalls
	Geoff Tison, UCSF, San Francisco, USA
10:35 - 11:05	Building and Scaling AI for ECG: Where Do We Go From Here?
	Mintu Turakhia, iRhythm Technologies, San Fransisco, USA

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11:05 - 11:35	How to Build a Foundation Model for ECG Analysis
	Robert Avram, Montreal Heart Institute, Montreal, Canada
11:35 - 12:05	From Development To Adoption: The Journey Of ECG-AI Into Clinical Practice
	Samir Awasthi, Anumana, Minneapolis, USA
12:05 - 12:30	ISCE Business Session (Bring ISCE T-Shirt)
12:30 - 13:30	**Lunch**
13:30 - 17:00	**Afternoon Discussion**
17:00 - 18:00	**Poster Session 1**
18:00 - 20:00	**Session II: Submitted Abstracts**
	Chairs: Claus Graff & Mary Carey
18:00 - 18:05	Chair Overview
18:05 - 18:35	Radiomics and ECG to Differentiate Cardiac Sarcoidosis from Arrhythmogenic Right Ventricular Cardiomyopathy: An Integrated Machine-Learning Approach
	Valentina Corino, Politecnico University, Milan, Italy
18:35 - 19:05	A Deep Foundation Model for ECG Interpretation: Enabling Rare Disease Detection Through Transfer Learning
	Joshua Barrios, UCSF, San Francisco, USA
19:05 - 19:35	Explainable Machine Learning for the Detection of Renal Insufficiency Using 12-lead ECG
	Mohammad Alrawashdeh, Jordan University of Science, Jordan
19:35 - 20:05	Atrial Branch Perfusion During STEMI is not Associated with Atrial Fibrillation
	Marina Demidova, Lund University, Lund, Sweden
20:05 - 21:30	**Dinner**
21:30 - 23:00	**Continue Poster Session 1**

Tuesday, March 25

07:00 - 07:45	**Breakfast**
07:55 - 10:00	**Session III: JW Early Career Investigators**
	Chairs: Johan DeBie & Peter Clemmensen
07:55 - 08:00	Chair Overview

CONFERENCE PROGRAM

08:00 - 08:30	Electrocardiogram Based Prediction of Structural Heart Disease Risk Using Explainable Deep Learning
	Bauke Arends, Utrecht University, The Nederlands
08:30 - 09:00	Detecting Sleep Apnea from RR Interval Correlations
	Matias Kanniainen, Tampere Univeristy, Finland
09:00 - 09:30	Leveraging 12-Lead ECG and Machine Learning for Improved Pulmonary Embolism Diagnosis
	Rui Qi Ji, University of Toronto, Canada
09:30 - 10:00	Are Single-Lead Consumer ECG Devices Enough for Accurate QTc Monitoring? A Calibrated Uncertainty AI Approach
	Peter Doggart, Ulster University, Belfast, UK
10:00 - 10:25	**BREAK**
10:25 - 12:30	**Session IV: Prehospital & Emergency Cardiac Care**
	Chairs: Jessica Zègre-Hemsey & Salah Al-Zaiti
10:25 - 10:30	Chair Overview
10:30 - 11:00	The impact of Alternate Defibrillation Strategies on Time in Ventricular Fibrillation
	Dr. Sheldon Cheskes, University of Toronto, Canada
11:00 - 11:30	Advanced Technologies to Enhance Out-of-Hospital Cardiac Care
	Paolo Giacometti, ZOLL Medical Corporation, Chelmsford MA, USA
11:30 -12:00	AI-Driven ECG: Navigating the Path to Clinical Adoption in Emergency Care
	Salah Al-Zaiti, University of Rochester, USA
12:00 - 12:30	The Role of a Credit Card-Sized ECG Device in Detecting Acute Coronary Syndrome Outside a Hospital Setting
	Branislav Vajdic, HeartBeam, Santa Clara, USA
12:30 - 13:30	**Lunch**
13:30 - 17:00	**Afternoon Discussion**
12:30 - 14:30	**ISCE Board of Directors Luncheon**

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17:00 - 18:00	**Poster Session 2**
18:00 - 20:00	**Session V: Regulatory; EU Funding programmes and Medical Devices Regulatory**
	Chairs: Roger Abächerli & Fabio Badilini
18:00 - 18:05	Chair Overview
18:05 - 18:35	Synergies Between EU Funding Programmes: A Project Portfolio Approach to Prevent and Manage Cardiovascular Diseases
	Marina Zanchi, Ugo Guarnacci, HaDEA, Bruxelles, Belgium
18:35 - 18:50	Medical Device Regulation: Update from the European Commission
	Maria Chiara Orlandi, Health and Food Safety DG (SANTE), Bruxelles, Belgium
18:50 - 19:05	Certification/approval of an ECG Medical Device in EU and USA: a Spinoff Experience
	Federica Censi, Istituto Superiore di Sanità, Rome, Italy
19:05 - 19:20	Currently Three Different Regulatory Strategies for the AI/ML and Cybersecurity in EU and USA
	Roger Abächerli, ETHZ, Switzerland
19:20 - 20:00	Panel Dicussion on Regulatory
20:00-21:30	**Dinner**
21:30-23:00	**Continue Poster Session 2**

Wednesday, March 26

07:00 - 07:55	**Breakfast**
07:55 - 10:00	**Session VI: Arrhythmias Among the Young**
	Chairs: Konrad Brockmeier & Gabriele Hessling
07:55 - 08:00	Chair Overview
08:00 - 08:30	*Arrhythmias in Children and the Role of the ECG*
	Konrad Brockmeier, University of Cologne, Germany
08:30 - 09:00	*ECG Interpretation by Traditional Algorithms: Results from a Large Database*
	Antonio Sanzo, Policlinico San Matteo, Pavia, Italy
09:00 - 9:30	*Arrhythmias in Children – Treatment and Settings*
	Gabriele Hessling, German Heart Center Munich, Germany

CONFERENCE PROGRAM (cont.)

09:30 - 10:00	Arrhythmias in the Young: Problems & How to Avoid
	Alpay Celiker, VKV American Hospital, Istanbul, Turkey
10:00 - 10:25	**BREAK**
10:25 - 11:30	**Session VII: ECG in Remote Clinical Trials**
	Chairs: Jean Philippe Couderc & Laura Burattini
10:25 - 10:30	Chair Overview
10:30 - 11:00	Remote Conduct And Monitoring In Arrhythmia Research
	Gregory Marcus, UCSF, San Francisco, USA
11:00 - 11:30	Cardiovascular Safety Assessment at a Core Lab in 2025
	Luc Dekie, Clario, Philadalephia, USA
11:30 - 12:30	**Session VIII: ECG Among Athletics**
	Chairs: Jean Philippe Couderc & Laura Burattini
11:30 - 11:35	Chair Overview
11:35 -12:15	ECG Interpretation for Pre-Participation Screening
	Domenico Corrado, Università di Padova, Italy
12:30 - 13:30	**Lunch**
13:30 - 17:00	**Afternoon Discussion**
17:00 - 18:00	**Session IX: ECG Jeopardy via Kahoot**
18:00 - 19:00	**Kenichi Harumi Plenary**
18:00 - 18:05	Chair Overview
18:05 - 19:00	The Long QT Syndrome - My Journey Between Patients and Genes
	Peter J Schwartz, Istituto Auxologico Italiano, Milano, Italy

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20:00 - 00:00	**Dinner Banquet**
	Poster Awards
	Jos Willems Early Career Investigators Competition Awards
	Chair's 2026 remarks
	President's remarks

Thursday, March 27

07:30 - 09:00	Closing Breakfast

TUTORIAL

Artificial Intelligence (AI) Essentials, Common Pitfalls, and Clinical Use

Chairs: Claus Graff & Manolis Kargiantoulakis

Manolis Kargiantoulakis, GE HealthCare, Milwaukee, WI, USA
Fundamental Concepts in AI/ML

Jørgen Kanters, University of Copenhagen, Copenhagen, Denmark
Explainable AI (XAI) in ECG Analysis: Transparency, Interpretation and Explanation

Joel Xue, Alivecor Inc., Mountainview, CA, USA, Emory University, Atlanta, GA, USA
Reduced 12-lead Diagnostic ECG Analysis – An AI Modeling Approach

SESSION I

Application of AI: State of the Art on Current Cardiology Topics

Chairs: Geoff Tison & Brian Young

Geoff Tison, UCSF, San Francisco, CA, USA
The Appropriate Use of AI in ECG Analysis: Potential and Pitfalls

Mintu Turakhia, iRhythm Technologies, San Francisco, CA, USA
Building and Scaling AI for ECG: Where Do We Go from Here?

Robert Avram, Montreal Heart Institute, Montreal, QC, Canada
How to Build a Foundation Model for ECG Analysis

Samir Awasthi, Anumana, Minneapolis, MN, USA
From Development to Adoption: The Journey of ECG-AI into Clinical Practice

Poster Session: 1

Chair: Jørgen K. Kanters

1. **Richard E. Gregg, Philips Healthcare, Cambridge, MA, USA**
   Adding Wilson Central Terminal Impact Into Simulation of 12-lead ECGs With Right Leg and Arm ead-wire Interchanges

2. **Paul Kligfield, Weill Cornell Medicine, New York, NY, USA**
   Why are Upright Torso Lead ECGs Different from Standard Supine Limb Lead ECGs?

3. **Olibhéar McAlister, Stryker/HeartSine Technologies, Ltd., Belfast, United Kingdom**
   Can an Artificial Neural Network Determine Sudden Cardiac Arrest Patient Sex by the Ventricular Fibrillation Waveform?

4. **Fabrice Extramiana, APHP Hôpital Bichat, Paris - Université Paris Cité**
   Electrocardiographic Phenotype of a Representative Subset of the French General Population: The ECG at Inclusion in the CONSTANCES Cohort

5. **Peter van Dam, Jagiellonian University Medical College, Krakow, Poland**
   Educating Anatomical Vectorcardiography: EduECG

6. **Naomi McCord, B-Secur Ltd, Belfast, Northern Ireland**
   Performance of Embedded ECG Analysis Software for Atrial Fibrillation Detection on a Wrist Wearable in a Clinical Cohort

7. **Kara McIlroy, B-Secur Ltd, Belfast, Northern Ireland**
   Comparative Evaluation of Biosensing Technologies for Continuous Respiration Monitoring on the Upper Arm

8. **W. Brian Chiu, Ventric Health, Pasadena, CA, USA**
   Modeling the Vectorcardiographic T-loop as a Planar Ellipse

9. **Adam Rafajdus, Powerful Medical, Bratislava, Slovakia**
   Fully-automated System for Digitization of Paper Electrocardiograms using Artificial Intelligence

10. **Ryszard Piotrowicz, National Institute of Cardiology Stefan Cardinal Wyszyński, State Research Institute, Warsaw, Poland**
    Application of a New Software of Electrocardiographic Signal Analysis (SATRO ECG) to Assess Ischemic Heart Disease

11. **Junmo An, Philips, Cambridge, MA, USA**
    Enhancing Prehospital ST-Elevation Myocardial Infarction Identification with Deep Residual Neural Networks on 12-Lead ECG

12. **Elena Zaklyazminskaya, Petrovsky Research Centre of Surgery, Moscow, Russia**
    Recurrent De Novo Mutation in the SCN5A Causes a Highly Symptomatic LQT3 with a Particular ECG Pattern

13. **Dillon J Dzikowicz, University of Rochester, Rochester, NY, USA**
    Performance of a Wearable Device for Real-Time Cardiac Monitoring among Active Firefighters

14. **Ksenia Sedova, Department of Biomedical Technology, Faculty of Biomedical Engineering, Czech Technical University in Prague, Prague, Czeck Repubic**
    Repolarization Parameters in Predicting Acute Hemodynamic Response

15. **Nika Regginou, University of Copenhagen, Copenhagen, Denmark**
    Population Averaging of Machine Learning Attention Maps from Electrocardiograms

16. **Hui Zhao, Clario, Philadelphia, PA, USA**
    An Artificial Intelligence–Powered Quality Score Tool for Assessing ECG Data

17. **Robert Avram, Department of Medicine, Montreal Heart Institute, Montreal, QC, Canada**
    DeepECG-SSL: A Foundational Artificial Intelligence Multi-Task ECG Model Leveraging Self-Supervised Learning for Enhanced Cardiovascular Disease Prediction

18. **Teemu Pukkila, Tampere University, Finland**
    Congestive Heart Failure Detection Based on Long-Term RR Interval Dynamics

19. **Md Moklesur Rahman, Dipartimento di Informatica, Università degli Studi di Milano, Milan, Italy**
    A Comparative Study of an AI-based System and Rule-based Software for Atrial Fibrillation Detection from Continuous ECGs

20. **S. Suave Lobodzinski, California State University and University of California LA, USA**
    How Artificial Intelligence Redefined ECG into Prognostic Tool for Cardiovascular Risk Assessment

21. **Klaudia Proniewska [1], Peter van Dam [2]**
    Teaching 3D Anatomical ECG: eduECG

SESSION II

Submitted Abstracts

Chairs: Claus Graff & Mary G Carey

Valentina Corino, Politecnico University, Milan, Italy
Radiomics and ECG to Differentiate Cardiac Sarcoidosis from Arrhythmogenic Right Ventricular Cardiomyopathy: An Integrated Machine-Learning Approach

Joshua Barrios, UCSF, San Francisco, CA, USA
A Deep Foundation Model for ECG Interpretation: Enabling Rare Disease Detection Through Transfer Learning

Mohammad Alrawashdeh, Jordan University of Science and Technology (JUST), Irbid, Jordan
Explainable Machine Learning for the Detection of Renal Insufficiency Using 12-lead ECG

Marina Demidova, Lund University, Lund, Sweden
Atrial Branch Perfusion During STEMI Is Not Associated With Atrial Fibrillation

SESSION III

Jos Willems Early Career Investigators

Chairs: Johan De Bie & Peter Clemmensen

Bauke Arends, Utrecht University, Uthrecht, The Netherlands
Electrocardiogram Based Prediction of Structural Heart Disease Risk Using Explainable Deep Learning

Matias Kanniainen, Tampere Univeristy, Tampere, Finland
Detecting Sleep Apnea from RR Interval Correlations

Rui Qi Ji, University of Toronto, ON, Canada
Leveraging 12-Lead ECG and Machine Learning for Improved Pulmonary Embolism Diagnosis

Peter Doggart, Ulster University, Belfast, UK
Are Single-Lead Consumer ECG Devices Enough for Accurate QTc Monitoring? A Calibrated Uncertainty AI Approach

SESSION IV

Prehospital & Emergency Cardiac Care

Chairs: Jessica Zègre-Hemsey & Salah Al-Zaiti

Sheldon Cheskes, University of Toronto, ON, Canada
The Impact of Alternate Defibrillation Strategies on Time in Ventricular Fibrillation

Paolo Giacometti, ZOLL Medical Corporation, Chelmsford MA, USA
Advanced Technologies to Enhance Out-of-Hospital Cardiac Care

Salah Al-Zaiti, University of Rochester, NY, USA
AI-Driven ECG: Navigating the Path to Clinical Adoption in Emergency Care

Branislav Vajdic, HeartBeam, Santa Clara, CA, USA
The Role of a Credit Card-Sized ECG Device in Detecting Acute Coronary Syndrome Outside a Hospital Setting

Poster Session: 2

Chair: Dillon J Dzikowicz

22. **Priya A. Prasad , University of California, , San Francisco, San Francisco, CA, USA**
Hospital-Based Ventricular Tachycardia: Patient Characteristics, Frequency, Time to First Event, and Rate of Mortality Stratified by Intensive Care Unit Type

23. **Yu-He Zhang, Philips Healthcare, Cambridge, MA, USA**
Exploring Broader Indicators via Serial ECG Analysis for Acute Chest Pain Patients

24. **Nathan Riek, University of Pittsburgh, PA, USA**
Hybrid Model for Forecasting Atrial Fibrillation from Normal ECG Signal

25. **Ljuba Bacharova, International Laser Center CVTI, Slovak Republic**
The Effect of Individual Electrophysiological Factors on the QRS Complex Amplitude in Left Ventricular Hypertrophy: A Simulation Study.

26. **Klaudia Proniewska, University Medical College, Krakow, Poland; and**
Immersive Exploration of Cardiac Anatomical Variants and Electrophysiological Correlations in 3D Through Extended Reality

27. **Asger Knudsen, Department of Health Science and Technology, Aalborg University, Aalborg, Denmark**
PR Interval Duration and the Risks of Recurrent Syncope and All-Cause Mortality in Patients with Syncope

28. **Petrus Emmanuel Oliveira Gomes Brant Abreu, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil**
High-Precision Automatic Classification of Normal Electrocardiograms: an AI-based Model for the Telehealth System

29. **Krzysztof Piotr Malinowski, Center for Digital Medicine and Robotics, Jagiellonian University Medical College, Krakow, Poland**
The Distribution of Normal VCG and ECG Waveforms to Support ECG Classification

30. **Daniel Guldenring, Kempten University of Applied Sciences, Kempten, Germany**
Which Estimates Can We Trust When Estimating Body Surface Potential Maps from the Standard 12-lead ECG? A Modelling Approach.

31. **Dillon J Dzikowicz, University of Rochester, Rochester, NY, USA**
KardiaMobile 6L Identifies More Arrythmia Episodes than Extended Ambulatory ECG Monitoring

32. **Cees A. Swenne, Leiden University, Leiden, The Netherlands**
Machine Learning to Diagnose Acute Coronary Syndrome in Ambulance ECGs

33. **Topi Niemi, Tampere University, Tampere, Finland**
An Efficient Method for Detecting T waves in ECG Signals

34. **Peter Van Dam, Peacs BV, Arnhem, The Netherlands**
Ellipsoid-Based Morphing Algorithm for Patient-Specific 3D Heart Ventricles

35. **Juan Jose Garcia, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA**
Conformal Model Combination: A Strategy to Merge Multiple Prehospital ACS Predictors and Improve Predictor Efficiency

36. **Hanzhi Zhang, University of Copenhagen, Copenhagen, Denmark**
Masking Convoluted Neural Networks Improve P-wave Analysis

37. **Martino Vaglio, AMPS llc, New York, NY, USA**
Evaluating the Extent Advanced AI Systems can Support Human Intervention in the Digitization of Paper ECGs in the Context of Pharmaceutical Studies.

38. **Joel Xue, PhD, Alivecor Inc., Mountain View, CA, USA,**
Emory University, Atlanta, GA, USA
The Effect of Model Size on Generalization in an ECG Interpretation Deep Learning Model

39. **Alessandra Pia Porretta, CNMR Maladies Cardiaques Héréditaires Rares, APHP, Hôpital Bichat Claude-Bernard, Paris, France**
Quantitative Software-Based Analysis of T-Wave Morphology: Identification of New ECG Predictors of Cardiac Events in Long QT Syndrome

40. **Paolo G. Cachi, F. Edward Hébert School of Medicine, Bethesda, MD, USA**
Two-Dimensional Warping 2.0: A Fast, Accurate, and Robust ECG Segmentation Algorithm

41. **Malene Nørregaard Department of Biomedical Sciences,**
University of Copenhagen, Copenhagen, Denmark
Estimation of the CHA2DS2VASc Score in Nocturnal Photoplethysmograms from Patients with Atrial Fibrillation using Deep Learning

SESSION V

EU Funding Programmes and Medical Devices Regulatory: Different Experiences from both Europe and the US

Chairs: Roger Abächerli & Fabio Badilini

Marina Zanchi, Ugo Guarnacci, HaDEA Buxelles, Belgium

Synergies Between EU Funding Programmes: A Project Portfolio Approach to Prevent and Manage Cardiovascular Disease

Marina Chiara Orlandi, Health and Food Safety DG (SANTE), Bruxelles, Belgium

Medical Device Regulation: Update From The European Commission

Federica Censi, Istituto Superiore di Sanità, Rome, Italy

Certification/Approval of an ECG Medical Device in EU and USA: A Spinoff Experience

Roger Abächerli, D-HEST, ETH Zürich, Zürich , Switzerland

Currently Three Different Regulatory Strategies for the AI/ML and Cybersecurity in EU and USA

Panel Discussion on Regulatory

SESSION VI

Arrhythmias Among the Young

Chairs: Konrad Brockmeier & Gabriele Hessling

Konrad Brockmeier, University of Cologne, Cologne, Germany

Arrhythmias in Children and the Role of the ECG

Antonio Sanzo, Policlinico San Matteo, Pavia, Italy

ECG Interpretation by Traditional Algorithms: Results from a Large Database

Gabriele Hessling, German Heart Center Munich, Munich, Germany

Arrhythmias in Children – Treatment and Settings

Alpay Celiker, VKV American Hospital, Istanbul, Turkey

Arrhythmias in the Young: Problems & How to Avoid

SESSION VII

ECG In Remote Clinical Trials

Chairs: Jean Philippe Couderc, Laura Burattini

Gregory Marcus, UCSF, San Francisco, CA, USA

Remote Conduct And Monitoring In Arrhythmia Research

Luc Dekie, Clario, Philadalephia, PA, USA

Cardiovascular Safety Assessment at a Core Lab in 2025

SESSION VIII

ECG Among Athletics

Chairs: Jean Philippe Couderc & Laura Burattini

Domenico Corrado, Università di Padova, Padova, Italy

ECG Interpretation for Pre-Participation Screening

KENICHI HARUMI PLENARY ADDRESS

Peter J Schwartz History LQTS

Chairs: Mary G Carey

Peter J Schwartz, Istituto Auxologico Italiano, Milano, Italy

The Long QT Syndrome - My Journey Between Patients and Genes