

AID 2017 DRAFT SCHEDULE

Last Updated: May 4 2017

9:00 INTRODUCTION

9:10 Invited speaker: M. Elena Hernando

10:00 Automatic Adjustment of Basal Insulin Infusion Rates in Type 1 Diabetes using Run-to-Run Control and Case- Based Reasoning

Pau Herrero¹, Peter Pesl¹, Monika Reddy², Nick Oliver² and Pantelis Georgiou¹

¹Centre for Bio-Inspired Technology, Imperial College London, London, SW7 2AZ, UK

²Charing Cross Hospital, Imperial College Healthcare NHS Trust, London, W2 1NY, UK

10:15 A CBR-based bolus recommender system for type 1 diabetes

Ferran Torrent-Fontbona, Beatriz Lopez, and Alejandro Pozo-Alonso
eXiT research group, University of Girona, Girona 17003, Catalunya

10:30 BREAK

11:00 T2DM phenotypes recognition by Careflow Mining

Arianna Dagliati, PhD², Lucia Sacchi, PhD¹, Valentina Tibollo, MS², Giulia Cogni², MD, Luca Chiovato, MD, PhD², John H. Holmes, PhD³, Riccardo Bellazzi, PhD¹

¹University of Pavia, Pavia, Italy;

²Istituti Clinici Scientifici Maugeri, Pavia, Italy,

³University of Pennsylvania, USA

11:15 Drug Purchases Behavioral Patterns to Support Clinical Decisions in T2D Patients

Arianna Dagliati, PhD², Lucia Sacchi, PhD¹, Valentina Tibollo, MS², Giulia Cogni², MD, Luca Chiovato, MD, PhD², Riccardo Bellazzi, PhD¹

¹University of Pavia, Pavia, Italy;

²Istituti Clinici Scientifici Maugeri, Pavia, Italy.

11:30 Prediction of postprandial hypoglycemia from insulin intakes and carbohydrates: analysis and comparison between real and simulated datasets

Fabien Dubosson¹, Natalia Mordanyuk², Beatriz López², and Michael Schumacher¹

¹AISSLab group, University of Applied Sciences Western Switzerland

²eXiT group, University of Girona

11:45 A clinical decision support system for the diagnosis of Diabetic Retinopathy

Aida Valls¹, Antonio Moreno¹, Domenec Puig¹, Emran Saleh¹, Jose Escorcia-Gutierrez^{1,2} and Jordina Torrents-Barrena² Pedro Romero-Aroca³, Ramon Sagarra-Alamo, and Sofia de la Riva-Fernandez³

¹Dep d'Enginyeria Informàtica i Matemàtiques, Universitat Rovira i Virgili, Spain

²Universidad Autónoma del Caribe, Colombia

³Ophthalmic Service, University Hospital Sant Joan de Reus, Institut d'Investigació Sanitària Pere Virgili (IISPV), Universitat Rovira i Virgili, Spain

12:00 Towards a Formal Model of Type 1 Diabetes for Artificial Intelligence

D. Brown, C. Martin, D. Duce, A. Aldea, R. Harrison

Department of Computing and Communication Technologies, Oxford Brookes University, UK

12:15 Developing a Dynamic Bio-inspired Intelligent System to Support Diabetic Patients

Mireya Munoz-Balbontin, Tjeerd V. olde Scheper, and Arantza Aldea

Department of Computing and Communication Technologies - Oxford Brookes University UK

12:30 LUNCH BREAK

13:30 Demonstration and Requirements Discussion of AID Repository

14:30 TEA BREAK

15:00 Discussion about further collaborations and future editions of the workshop.

16:00 CLOSE