



University of Essex



Big Data and Analytics

Summer School

The Essex Big Data and Analytics Summer School aims to provide a research training event and forum for knowledge exchange and networking for graduates, postgraduates, researchers, academics and business professionals and practitioners in the emerging fields of Data Science, Analytics and Big Data.

The Summer School will cover a range of topics from the methodologies and techniques for Big Data and analytics, practical applications such as in business, health and other sectors, the curation and management of data as well as the legal, ethical and human rights implications of data.

The Summer School is over a two week period and participants can opt to attend one or the full two weeks. Courses are delivered over parallel sessions and the Summer School includes keynote talks, social and networking events. A typical course is 6 hours in length and it may be at an introductory, intermediate or advanced level.



24 July - 4 August 2017

Institute for Analytics and Data Science

University of Essex

E iadssum@essex.ac.uk

www.essex.ac.uk/iads/events/summer-school.aspx

Course Title: Introduction to data science
Speaker: Dr Jochen Leidner
Organisation: Thomson Reuters

Course Title: Hadoop fundamentals for the cloud

Speaker: Dr Martin Fleury
Organisation: University of Essex

Course Title: Introduction to Natural Language Processing (NLP)

Speaker: Dr Diana Maynard
Organisation: University of Sheffield

Course Title: Practical text analytics and sentiment analysis from social media

Speaker: Dr Diana Maynard
Organisation: University of Sheffield

Course Title: Practical methods for discrete optimisation

Speaker: Dr Daniel Karapetyan
Organisation: University of Essex

Course Title: IoT Application on Environment and Health Monitoring

Speaker: Dr Sefki Kolozali/Nazli Farajidavar
Organisation: University of Surrey

Course Title: Techniques for securing IoT devices in a cloud environment

Speaker: Dr Gareth Howells
Organisation: University of Kent

Course Title: Network analysis: from models to community detection

Speaker: Dr Giovanni Stracquandano
Organisation: University of Essex

Course Title: Data science for public policy

Speaker: Professor Slava Mikhaylov
Organisation: University of Essex

Course Title: Visual object recognition and tracking

Speaker: Professor Ales Leonardis
Organisation: University of Birmingham

Course Title: Data Protection, Security, Ethics and Liability in the age of big data

Speaker: Dr Audrey Guinchard/Dr Anthony Vickers
Organisation: University of Essex

Course Title: Encounters with big data: An introduction to using big data in the social sciences

Speaker: UK Data Service
Organisation: University of Essex

Course Title: Human rights in the era of big data and analytics

Speaker: Dr Daragh Murray/
Catherine Kent

Organisation: University of Essex

Course Title: From Data Science to Decision Making

Speaker: Dr Spyros Samothrakis
Organisation: University of Essex

Course Title: Introduction to R

Speaker: Profesor Leo Schalkwyk/
Dr Nicolae Zabet

Organisation: University of Essex

Course Title: Agent-based modelling of social systems

Speaker: Dr Peter Barbrook-Johnson/
Dr Kavin Narasimhan

Organisation: University of Westminster

Course Title: Machine learning with Mahout

Speaker: Richard Skeggs
Organisation: ESRC Business and Local Government Data Research Centre

Course Title: Hands-on Apache Spark: - "multifaceted" data processing and machine learning

Speaker: Dr Ivan Carrascosa
Organisation: University of Bristol

Course Title: Big Data and Financial Analytics

Speaker: Dr Nikos Vlastakis
Organisation: University of Essex

Course Title: Introduction and Data Modelling with Cassandra

Speaker: Ragini Gokhale
Organisation: University of Essex

Course Title: Doing Data Science

Speaker: Harry Powell
Organisation: Barclays PLC

Course Title: Introduction to Data Visualisation Using R

Speaker: Dr Aris Perperoglou
Organisation: University of Essex

Course Title: Designing Research for your Data

Speaker: Tarek al Baghal
Organisation: University of Essex

Course Title: Principles of big data storage and processing systems

Speaker: Dr Nikos Ntarmos
Organisation: University of Glasgow

Course Title: Big data management systems for fun and profit

Speaker: Dr Nikos Ntarmos
Organisation: University of Glasgow

Course Title: Best practice in licensing and governance for research data

Speaker: Louise Corti/UK Data Service
Organisation: University of Essex

Course Title: Pictures – the power and the glory for great analytics

Speaker: Dr Pete Barnsley
Organisation: BT

Course Title: Introduction to Machine Learning and Kernel Machines

Speaker: Dr Luca Citi
Organisation: University of Essex

Course Title: Modelling and analysis of complex systems

Speaker: Dr Chris Antonopoulos
Organisation: University of Essex

Course Title: An Introduction to Geographical Information Systems

Speaker: Professor Andrew Lovett
Organisation: University of East Anglia

Course Title: Best practice analytics

Speaker: Detlef Nauck
Organisation: BT

Course Title: Data science meets optimisation

Speaker: Dr Andrew Parkes
Organisation: University of Nottingham

Course Title: Introduction to Artificial Neural Networks and Deep Learning with TensorFlow

Speaker: Dr Michael Fairbank
Organisation: University of Essex

Course Title: Science and data

Speaker: Dr Andrew Harrison
Organisation: University of Essex

Course Title: How can Autonomous Cars see and understand their environment?

Speaker: Dr Aura Hernandez
Organisation: Universitat Autònoma de Barcelona