Introductory Workshop
on
SageMath: Matrices, Graphs and Networks
December 20-21, 2018

Centre for Advanced Research in Applied Mathematics and Statistics
Level VI, Health Sciences Library Building,
Manipal Academy of Higher Education, Manipal-576 104 Karnataka, India.

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Workshop website: http://carams.in/sagemath2018
Workshop email id: carams.mahe@gmail.com
About the Workshop

SageMath is a free and open-source software for symbolic and numerical mathematics and offers immense computing power. With a very wide scope of applicability ranging from basic computation and graph plotting to linear and abstract algebra, number theory, game theory, differential geometry, and even category theory, this software is an invaluable addition to any researcher’s toolset. SageMath uses a Python-based language and is interoperable with packages such as GAP, Maxima, and R. This hands-on workshop introduces SageMath and covers basic as well as advanced usage, from using available library functions to developing custom functions and implementing new algorithms. While the syntax and methods discussed will be generic and applicable throughout Sage irrespective of packages being used, there will be special focus on computational libraries for matrices, graphs, and networks. Knowledge of these topics and programming will not be assumed, but familiarity with any of them will be an added advantage.

About MAHE, Manipal

Manipal Academy of Higher Education is synonymous with excellence in higher education. Over 28,000 students from 57 different nations live, learn and play in the sprawling University town, nestled on a plateau in Karnataka’s Udupi district. It also has nearly 2500 faculty and almost 10000 other support and service staff, who cater to the various professional institutions in Health Sciences, Engineering, Management, Communication and Humanities which dot the Wi-Fi-enabled campus.

The University has off-campuses in Mangalore and Bangalore, and off-shore campuses in Dubai(UAE) and Melaka (Malaysia). The Mangalore campus offers medical, dental, and nursing programs. The Bangalore Campus offers programs in Regenerative Medicine. The Dubai campus offers programs in Engineering, Management and Architecture, and the Melaka campus offers programs in Medicine and Dentistry.

Every institute has world class facilities and pedagogy, which are constantly reviewed and upgraded to reflect the latest trends and developments in higher education. For more details visit us https://manipal.edu/

About CARAMS

CARAMS has been established in September, 2018 at MAHE with objectives of fostering advanced research and training in the area of Mathematics, Statistics and Applications. It facilitates in bridging the gap between Mathematicians/Statisticians and the Applied Mathematicians working in the area of Health, Technological, and Social Sciences.

Registration Fee

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<th>Category</th>
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<tr>
<td>Academic/industrial delegate</td>
<td>₹ 1800 (Inclusive of 18% GST)</td>
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<tr>
<td>UG/PG students</td>
<td>₹ 1000 (Inclusive of 18% GST)</td>
</tr>
<tr>
<td>MAHE Faculty/Staff/Research scholars</td>
<td>₹ 1500</td>
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How to apply

Delegates may apply by filling out the application form available online http://carams.in/registration and the payment can be done on the spot at registration desk. The registration fee may be paid through the crossed DD drawn in favor of “Manipal University conference/workshop” payable at Manipal or Udupi, and sent the same to Organizing Secretary, SageMath 2018, CARAMS, Level VI, Health Sciences Library Building, MAHE, Manipal, Karnataka, 576 104 India.

Accommodation

Registration fee includes kit, working lunch and tea. A decent accommodation at a guest house/shared flats/hostel/Fortune Inn Valley View will be arranged, on prior request at payment basis. The payment towards the hostel accommodation may be partially/fully waived off/reimbursed by the organizers depends on the fund availability.

Important Dates

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<tr>
<td>Last date for submission of application</td>
<td>December 15, 2018</td>
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For further details, please visit http://carams.in/sagemath2018