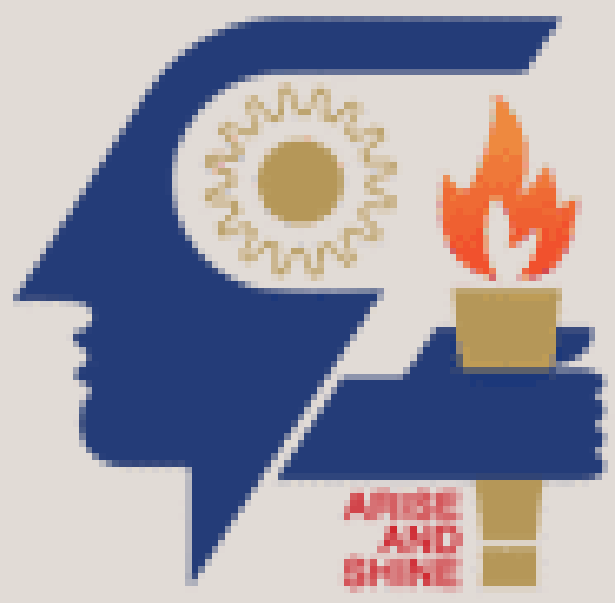




Karunya INSTITUTE OF TECHNOLOGY AND SCIENCES

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

A CHRISTIAN MINORITY RESIDENTIAL INSTITUTION

AICTE Approved & NAAC Accredited



Digerati Newsletter

ODD SEM

2019-2020

KARUNYA INSTITUTE OF TECHNOLOGY & SCIENCES



Department of CSE has joined hands with **SUSE** to educate the next generation of professionals in the cutting edge technologies such as DevOps, Kubernetes, Cloud Application Development, and Software-Defined Solutions.

Date: 29th November 2019.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Accredited by the National Board of Accreditation (NBA) in 2019, the Department of Computer Science and Engineering is the most sought after Department. It offers the best IT infrastructure, provides excellent learning & research environment and delivers the latest curriculum contents through strong Industry collaborations to provide solid foundations for the students. The programs cover a variety of subject areas in the cutting edge technologies with global perspectives viz Artificial Intelligence, Machine Learning, Data Analysis, Cybersecurity, Cloud Computing, Block Chain Technologies and Internet of Things to prepare students for a rewarding career.

VISION :

To raise world class computer science and engineering professionals excelling in academics, research and providing solutions to human problems.

MISSION :

- To develop Professionals with strong fundamental concepts, programming and problem-solving skills with exposure to emerging technologies.
- To promote research in the state of art technologies, providing solutions to human problems especially in the areas of Health, Water, Energy and Food.
- To develop leadership qualities with ethical values to serve the society.



MESSAGE FROM THE DEAN (E&T)

It's a matter of immense pleasure and satisfaction that the department of Computer Science Engineering has come up with the newsletter, for the odd semester of the academic year 2019-2020. I believe that the newsletter will serve as a window through which the achievements and progress made by the faculty members, staff and students can be viewed. I am delighted to note that the faculty members and the staff of the department of CSE, are committed to create an ambience for nurturing innovation, creativity, and excellence in the minds of students and aim to prepare the young engineers to confidently and competently face the challenges of intensifying competition by imparting high quality technical education coupled with appropriate training. I believe that the news letter will have wide circulation and the achievements mentioned in it newsletter will encourage and motivate the students and staff to bring many laurels to the department and to the institution. I congratulate the editorial team and all the members of the department of CSE. I wish success in all their endeavours.

FROM THE HOD'S DESK

It gives me great pleasure to congratulate students and faculty members of Department of Computer Science and Engineering for the publication of 2019 edition of its newsletter, 'DIGERATI'. Newsletter is believed to be a focus of the inside activities i.e. academics, students and faculty achievement as well as innovation occurring in the department. In the era of engineering and technology, I hope this newsletter will motivate the teacher and students in sharing their creativity and new ideas with the world and help in the thrust areas i.e. Food, Water, Energy and Health. I would like to thank all my colleagues for their tireless efforts to help the department progress at a very steady pace.



The placement season opened to an exciting start for the upcoming batch of **Computer Science** graduating students. **Jose Thomas, Jeffin Sam, Rohan Joseph** have received placement offers of 19.4 lacs per annum from Nutanix Technologies India. The placement opportunities are extending with each passing day as many national and multinational companies are visiting the camps for recruitment .

**"IN THE MIDDLE OF
DIFFICULTY LIES
OPPORTUNITY."**

—Albert Einstein

A SEMESTER IN PICTURES



DEPARTMENT OF CSE INAUGURAL CEREMONY OF THE ASSOCIATION OF COMPUTER ENGINEERS (ACE)

RESOURCE PERSON : Mr. Dinesh M, Architect, Robert Bosch Business Solutions, Coimbatore.

DATE : 11th October 2019



INTERACTIVE SEMINAR ON “TRENDS IN CLOUD COMPUTING”

RESOURCE PERSON : **Mr. Kiruba Ponkumar, Infrastructure Specialist, Nokia.**

DATE : 26th JULY 2019



SHORT TERM CERTIFICATION COURSE ON CONFIGURING CISCO DEVICES

RESOURCE PERSON :
CISCO Networking Academy

DATE : 22nd - 24th & 29th - 31st July



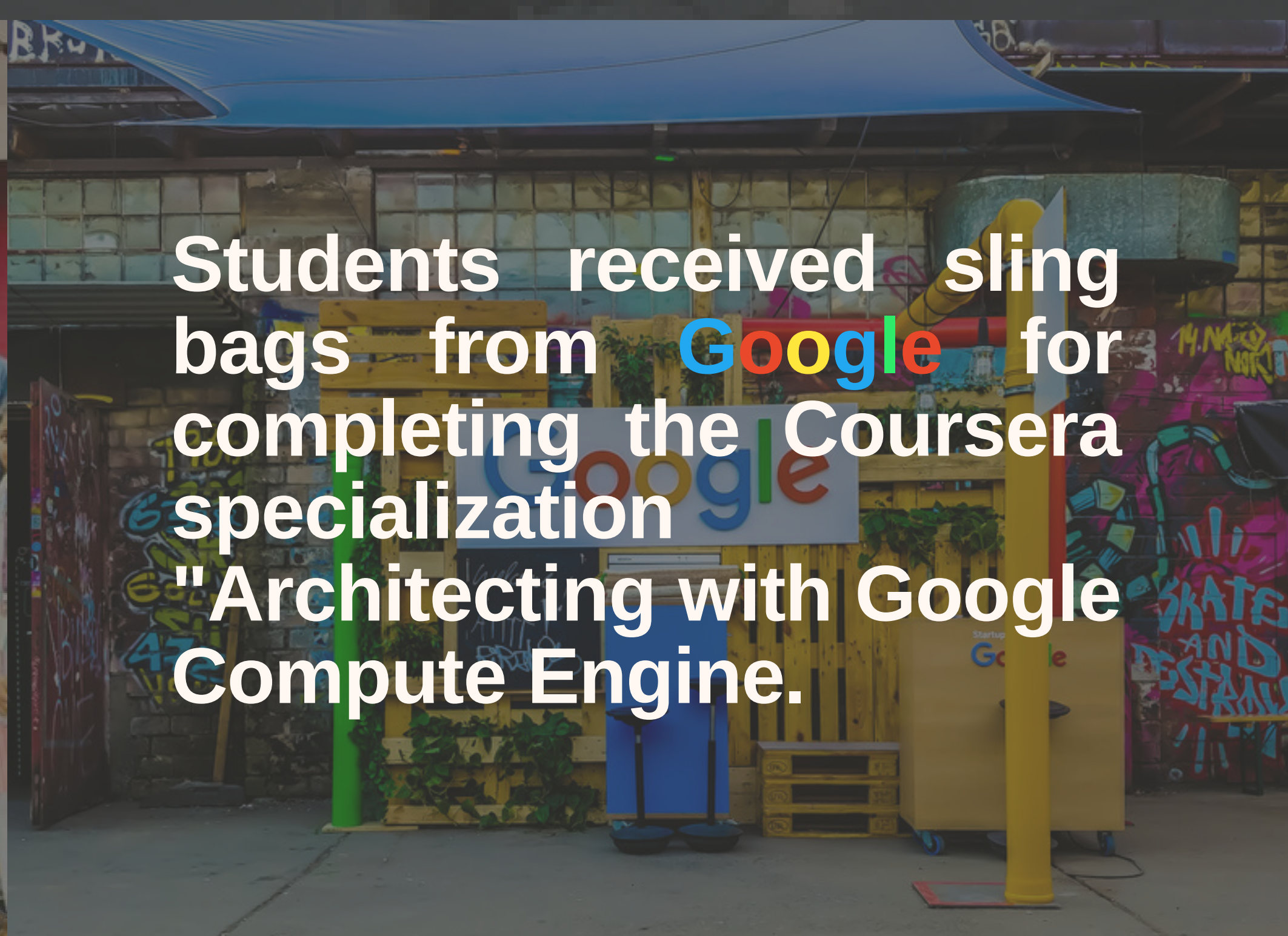
CYBERSECURITY LEARN-A- THON ONLINE SELF PACED LEARNING COURSE

RESOURCE PERSON :
CISCO Networking Academy

DATE : 15th - 31st JULY 2019



The Department of Computer Science and Engineering has signed an MoA with Emurgo for Blockchain technology on 26th November 2019. This will enable us to design an internationally aligned curriculum, Global Research Development Support and for establishing an Incubation Centre .



Students received sling bags from Google for completing the Coursera specialization "Architecting with Google Compute Engine."



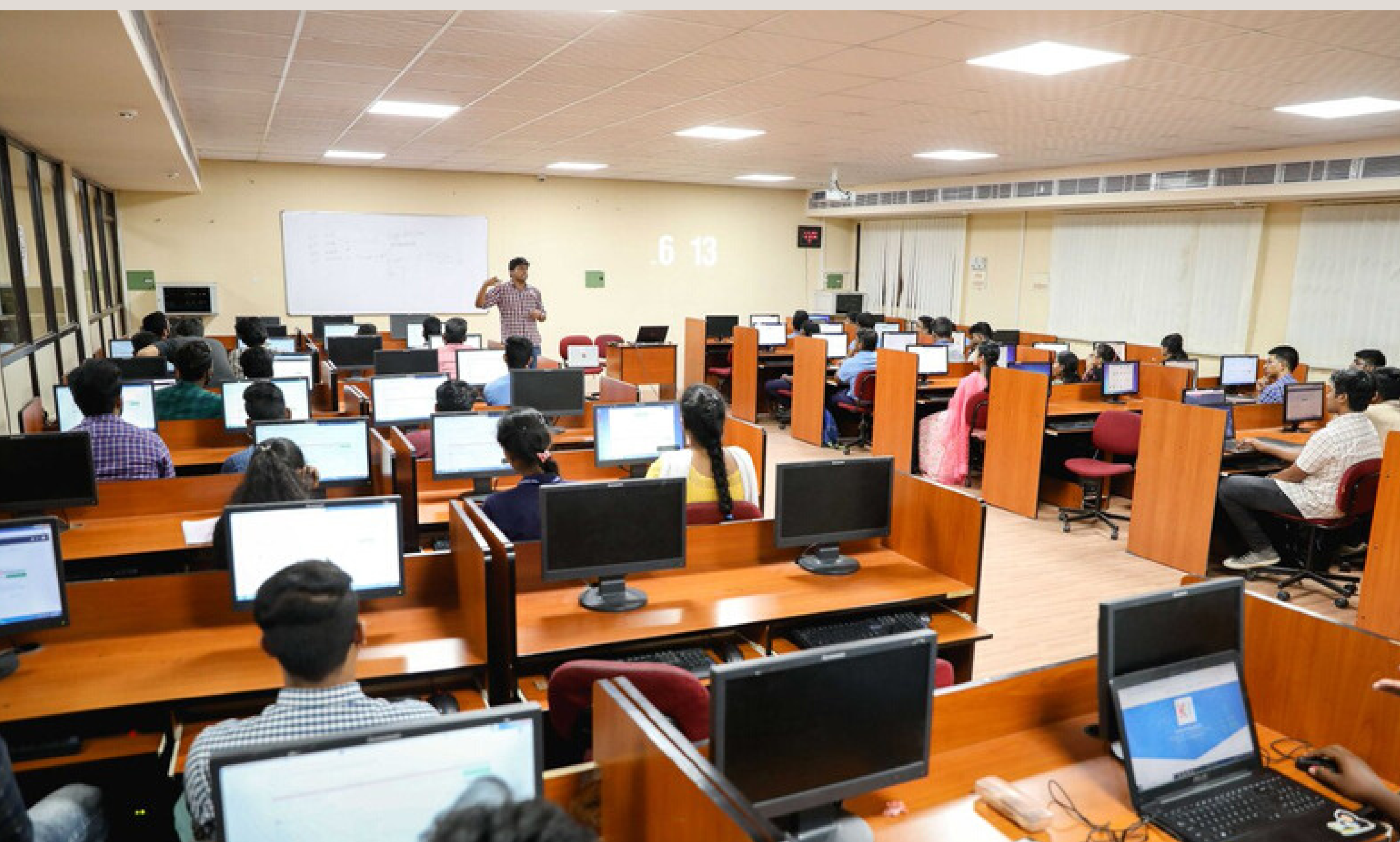
Play Ground for Innovation – Project based learning done by our 1st years.



Technical Seminar on Cloud Computing

RESOURCE PERSON : Dr. T.Alexander,
Assistant. Tech Consultant
DXC Technologies,
Chennai.

DATE : 20th August 2019.



Lecture on Machine Learning and the prospective research areas

RESOURCE PERSON : Dr.U Srinivasalu Reddy, Assist.Prof, Dept of Computer Applications, National Institute of Technology, Trichy.

DATE : 07th August 2019.

Mr.Rajagopal, Chief Architect , AI-Cognizant Technology Solutions Had:

- Seminar on Transforming Human Disability to Super-ability using Artificial Intelligence

DATE : 25th July 2019



- Two days hands-on workshop on Deep Learning with Python

DATE : 26th July to 27th July 2019



A SEMESTER IN PICTURES



HANDS-ON WORKSHOP ON "AI - AN OPTIMIZATION PROBLEM"

RESOURCE PERSON : **Mr. Rajesh K Jeyapaul, Technical Architect, IBM, Bangalore**

DATE : 15th July 2019



LECTURE ON MACHINE LEARNING AND THE PROSPECTIVE RESEARCH AREAS

RESOURCE PERSON : **Dr.U Srinivasalu Reddy, Assist.Prof, Dept of Computer Applications, National Institute of Technology, Trichy**

DATE : 7th August 2019



PROFILE BUILDING WORKSHOP BY THINK AND LEARN ,PVT. LTD

RESOURCE PERSON : **Mr.P.N.Santhosh, Co-Founder Think and Learn,Pvt.Ltd Chennai.**

DATE : 6th September 2019



TECHNICAL SEMINAR ON DATA-BASE FUNDAMENTALS

RESOURCE PERSON : **Dr.G.Geroge Washington, Associate Professor & Director i/c, Knowledge Data Center, Anna University, Chennai.**

DATE : 9th September 2019

Quick Updates

Android app to Track your location using Google
195,688 views • Mar 6, 2017 1.9K

bright varghese
2.26K subscribers

MR. R. BRIGHT GEE VARGHESE GOT A MINDBLOWING RESPONSE ON HIS YOUTUBE VIDEO WITH 195K VIEWS.

venkatesan ramachandran
4.57K subscribers

HOME VIDEOS PLAYLISTS COMMUNITY

DR. R. VENKATESAN'S YOUTUBE CHANNEL REACHED 4.57K SUBSCRIBERS AND THE COUNT KEEPS INCREASING.

We appreciate and encourage our faculties for their tremendous hardwork. 

For any suggestions contact : hod_cse@karunya.edu



SEMINAR ON HOW TO GRAB THE RIGHT OPPORTUNITY IN MARKET PLACE

RESOURCE PERSON : **Mrs. Anu Francis, HR - Conevo Technologies, Chennai .**

DATE : 11th October 2019



Two days Hands-On Workshop on Ethical Hacking

RESOURCE PERSON : Mr. Alagu Jeeva, Information Security Analyst, Iconik, Chennai Research Scholar, CSE.

DATE : 10th-11th October 2019.



Neural Architecture, A Step towards AI Automation

RESOURCE PERSON : Mr. Rajesh Jeyapaul, Sr. Architect, IBM Digital Labs, IBM, Bangalore.

DATE : 12th October 2019.

Hands-on Workshop on AngularJS

- Mrs. Anu Francies, HR - Conevo Technologies, Chennai.
- Mr. Ramesh Babu, QA Head, Conevo Technologies, Chennai.
- Ms. Vinupriya Annamalai, Chief Technical Manager, Conevo Technologies, Chennai.

DATE : 11th October 2019



Technical seminar on "Data Center Management and Disaster Recovery"

- RESOURCE PERSON : Dr. Ranga Rajagopal, Director-Operation, CEO (Acenet Technologies India) Coimbatore.

DATE : 23rd October 2019



A SEMESTER IN PICTURES



INVENIO '19 PROFESSIONAL BODY ORIENTATION PROGRAMME

RESOURCE PERSON : **Dr. Ranga Rajagopal**, Director- Operation, CEO (Acenet Technologies India) Coimbatore.

DATE : 23rd October 2019



TECHNICAL SEMINAR ON DATA- BASE FUNDAMENTALS

RESOURCE PERSON :
Dr.G.Geroge
Washington, Associate Professor
& Director i/c, Knowledge Data
Center, Anna University, Chennai.

DATE : 9th September 2019

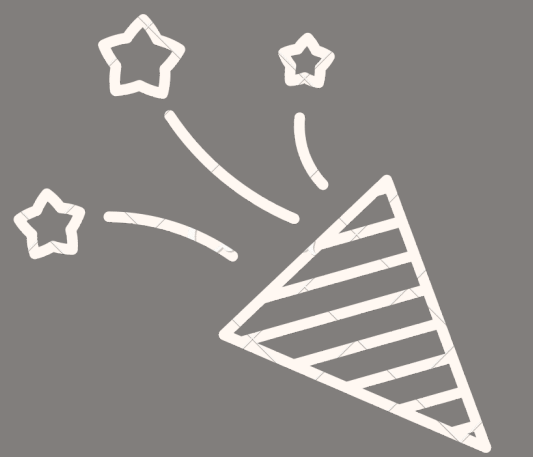


FACULTY DEVELOPMENT PROGRAMME ON IOT

RESOURCE PERSON : **Mr. Gowtham**
and **Mr. Karthikeyan**, Enthu
Technology Solutions Private
Limited, Coimbatore.

DATE : 19-20th November 2019

*Heartfelt Congratulations to our faculties on their
completion of PHD*



DR. M. MYTHILY



DR. T. JEMIMA JEBASEELI



DR. J. JEBAVEERASINGH

INTERNATIONAL CONFERENCE ON BIG-DATA AND CLOUD COMPUTING (THE ICBDCC'19)



Third International Conference on Big-Data and Cloud Computing .
(The ICBDCC'19)

Keynote Speakers :



Zorislav Sojat (Shoyat),

Professor of General Linguistics and Socio-Humanistic Informatics, Centre for Information and Computer Science, Ruder Boskovic Institute, Croatia.

Title of the Speech: From Dew Over Cloud Towards The Rainbow

Dr. Andreas W. Kempa-Liehr,

Department of Engineering Science, The University of Auckland, New Zealand.

Title of the Speech: Balancing Small Samples and Big Data.



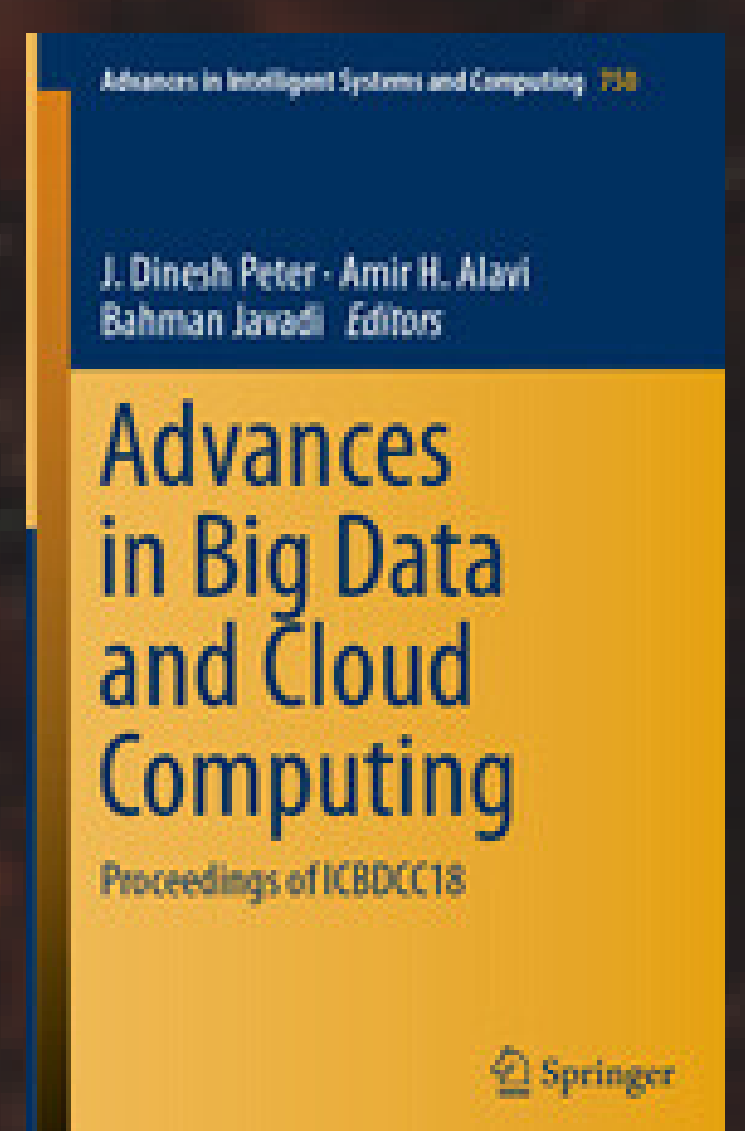
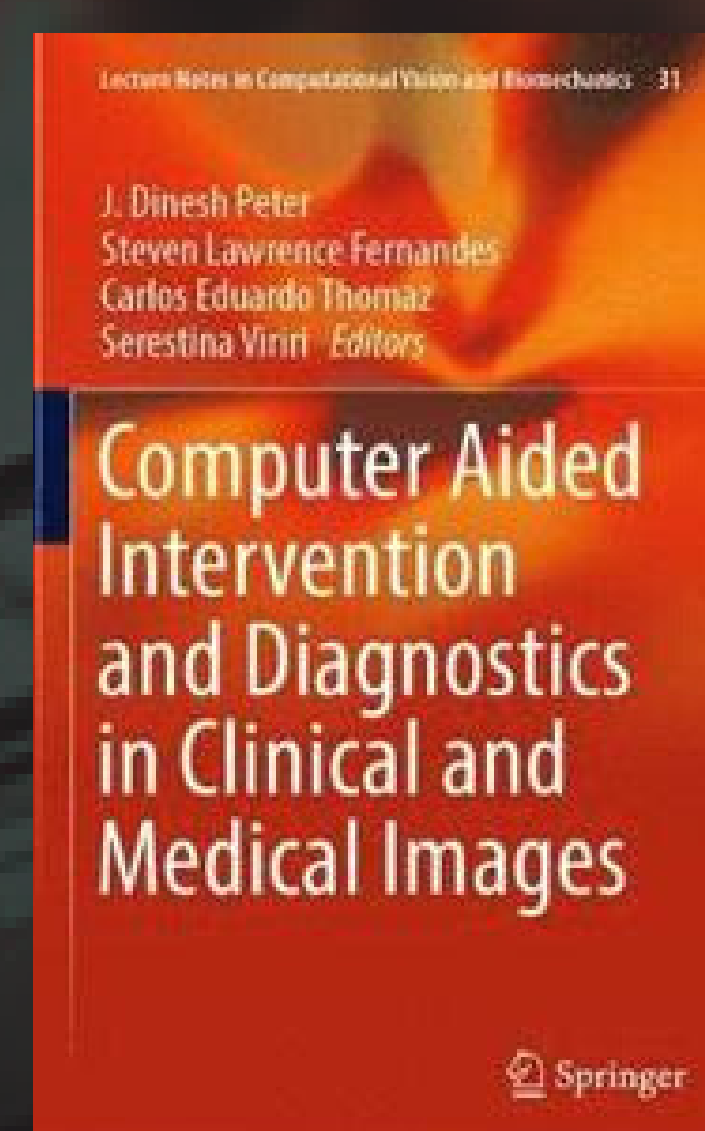
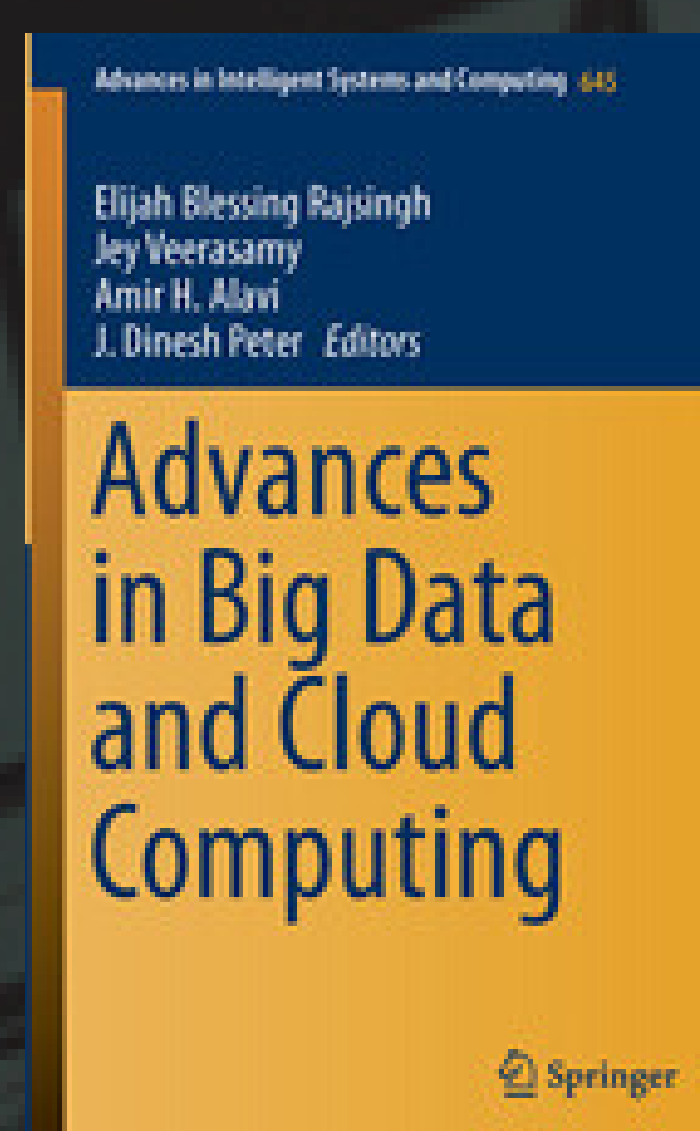
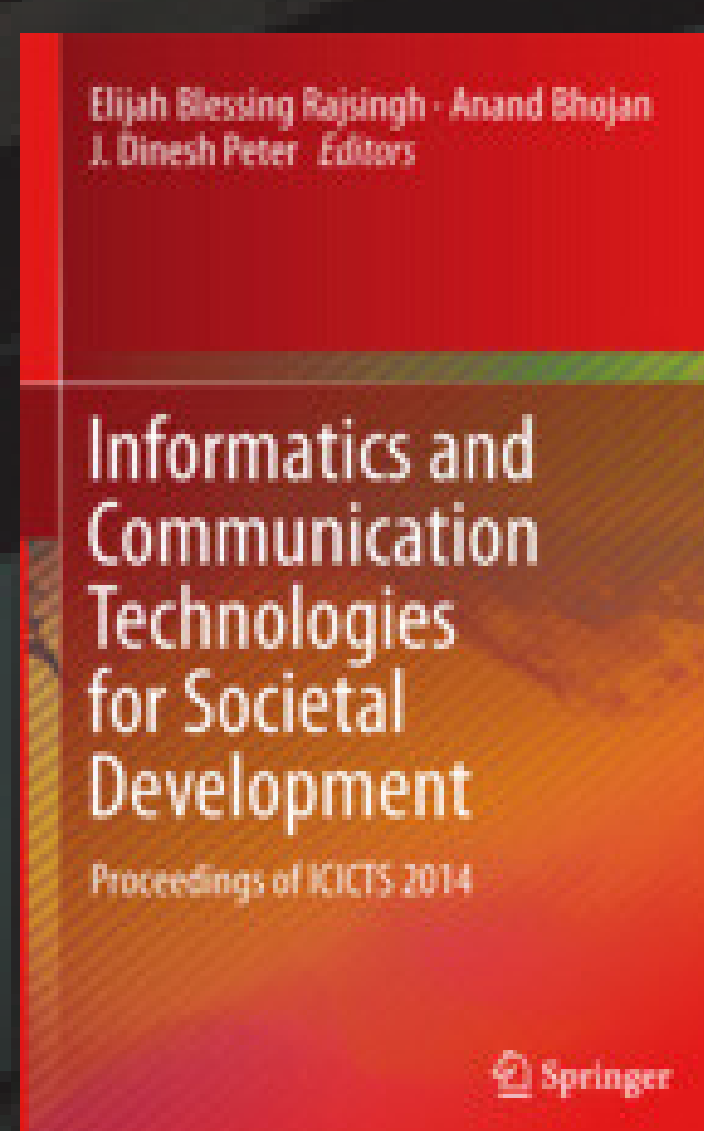
J. Dinesh Peter - Amir H. Alavi
Steven L. Fernandes
Editors

**Intelligence
in Big Data
Technologies
- Beyond the Hype**
Proceedings of ICBDCC 2019



Third International Conference on Big-Data and Cloud Computing (The ICBDCC'19) is conducted on December 6 and 7 2019. Delegates from various parts of globe presented their papers in Big-Data and Cloud computing technologies. The conference proceedings will be published in Springer AISC series.

Previous Proceedings :





GUESSING WHAT OUR FACULTY MEMBERS HAVE BEEN UPTO?

Journals Published

- Bright Gee Varghese, B.G., Raimond, K., Lovesum, J., A novel approach for automatic Remodularization of software systems using extended ant colony optimization algorithm, Information and Software Technology, 114, pp. 107-120, 2019.
- D. Narmadha, A.Pravin, An Enhanced Prediction Model for essential proteins prediction for Human Diseases, International Journal of Engineering and Advanced Technology, Vol. 8, Issue 4, 2019.
- A.Kethsy Prabavathy, M. Mythily, S. Deepa Kanmani, Gradual shot boundary detection using SVM optimization technique and HOG feature, International Journal of Recent Technology and Engineering, Vol. 8, Issue-1, 2019.
- J. Sebastian Terence, Geethanjali Purushothaman, A Novel Technique to Detect Malicious Packet Dropping Attacks in Wireless Sensor Networks, Journal of Information Processing System, Vol. 15, No. 1, 2019.
- T. Jemima Jebaseeli, C. Anand Deva Durai, Mechanism for Diabetic Retinal Blood Vessel Profile Measurement and Analysis on Fundus Images, Research Journal of Pharmacy and Technology, Vol. 12(1), pp. 1-6, 2019.
- S. Iwin Thanakumar Joseph, J. Sasikala, D. Sujitha Juliet, Optimized vessel detection in marine environment using hybrid adaptive cuckoo search algorithm, Computers and Electrical Engineering, Vol. 78, pp. 482-492, 2019.
- Rexie, J.A.M., Raimond, K., Mythily, M., Kethsy Prabavathy, A., Ngs short read alignment algorithms and the role of big data and cloud computing, International Journal of Innovative Technology and Exploring Engineering, Vol. 8, No. 9, 2019.
- Basil Xavier S, Shubin David, Andrew J, Isaac Joel Raj, Hybrid Approach for Weather Prediction using Satellite Images, International Journal of Recent Technology and Engineering, Vol. 8, Issue-1, 2019.
- Vincent, S.Francis, S.A.J, Raimond, K.Ali, T.Kumar, O.P, A Novel Planar Antenna Array for a Ground-based Synthetic Aperture Radar, Serbian Journal of Electrical Engineering, Vol. 16, Issue 2, pp. 195-209, 2019.



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Journals Published

- Andrews Jose,D.Sujitha Juliet, Recent advances and investigation of efficient Computer Aided Diagnosis systems for CT images in Liver cancer detection, International Journal of Advanced Trends in Computer Science and Engineering, Vol. 8, No.3, 2019.
- A.Shamila Ebenezer, S.Jebapriya, B.Jefferson Raja Bose, Predictive analysis of crypto currencies for developing an interactive crypto currency chatbot using IBM Watson assistant, International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol. 8 Issue-10, 2019.
- Mythily.M, Valarmathi.M.L, Anand Deva Durai.C, Rexie J.A.M, An automation framework design for secure software development, Journal of Software-Evolution and Process, 2019.
- David Livingston J, Kirubakaran E, Client/Server Model of Data Privacy using Extended Playfair Cipher for SaaS Applications on the Cloud, International Journal of Innovative Technology and Exploring Engineering, (IJITEE),Vol. 8,Issue-10, 2019.
- Seetha, S.,Sharmila Anand, J.F., Grace Mary Kanaga, E RFSMPF: Rank based forwarder selection in MCAST with fuzzy optimized path formation in wireless mesh network , Wireless Networks, 2019.
- Mythily M, Radhika Nambiar, Kethsy Prabhavathy, Iwin Thanakumar Joseph, Deepa Kanmani S, A design pattern structure to extract statistical report, International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol. 8, 2019.
- Andrew J, Karthikeyan J, Privacy-Preserving Internet of Things: Techniques and Applications, International Journal of Engineering and Advanced Technology (IJEAT),Vol. 8, Issue 6, 2019.
- Jebaveerasingh J, Immanuel Johnraja J, Getzi Jeba Leelipushpam P, Nancy Eymal Samuel, Learning Based Resolution Enhancement of Digital Images, International Journal of Engineering and Advanced Technology (IJEAT), Vol. 8 Issue-6, 2019.
- T. Jemima Jebaseeli, C. Anand Deva Durai and J. Dinesh Peter, Retinal blood vessel segmentation from diabetic retinopathy images using tandem PCNN model and deep learning based SVM, Optik(Elsevier), Vol. 199, 2019.



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Journals Published

- J Shiny Duella, M Roshni Thanka, Bijolin Edwin, Improving the Reliability of Web Based Result Query Systems during High Traffic Periods, International Journal of Recent Technology and Engineering (IJRTE), Vol. 8, Issue-225, 2019.
- Manoj Sai, E. Bijolin Edwin, Mani Arun, Santhosh Paul, Sudarshan, Train Collision Avoidance & Crack Detection Using GPS, International Journal of Recent Technology and Engineering (IJRTE), Vol. 8, Issue-225, 2019.
- D.Narmadha, A. Pravin, An effective statistical integrative algorithm (Aeiapp) for protein prediction, International Journal of Innovative Technology and Exploring Engineering, Vol. 8, No.11, pp. 132-137, 2019.
- Mrs. Akila Agnes. S, Dr. Anitha. J, 3D lung segmentation on CT images using region-based method, International Journal of Advanced Trends in Computer Science and Engineering, Vol. 8, No.4, pp. 1156-1161, 2019.
- Mr. Bright Gee Varghese. R, Prof. Dr. Kumudha Raimond, Dr. Jeno Lovesum, An Integrated Method for Improving Remodularization in Software Systems using Probability Method, International Journal of Innovative Technology and Exploring Engineering, Vol. 8, Issue 9, 2019.
- Mrs. Jeba Priya, Mr. Shibin David, AP/CSE, Dr. Kathrine, Dr. G. Naveen Sundar ,Support vector machine for classification of Autism Spectrum Disorder based on abnormal structure of Corpus, International Journal of Advanced Computer Science and Applications, Vol. 10, No. 9, 2019.
- Hema Kumar, S. Uday Kiran, J. Ambeth Kumar, V.D. Saranya, G. Ramalakshmi K, Effective online medical appointment system, International Journal of Scientific and Technology Research, Vol. 8, Issue 9, 2019.
- S. Iwin Thanakumar Joseph, Sasikala J. D. Sujitha Juliet, Ship detection and Recognition for offshore and inshore applications: A survey, International Journal of Intelligent Unmanned Systems, 2019.
- Rajasekar Velswamy, Sorna Chandra Devadass, Karunakaran Velswamy, Jeyakrishnan Venugopal, Indoor and outdoor image classification: A mixture of brightness, straight line, Euclidean shapes and recursive shapes based approach, International Journal of Intelligent Unmanned Systems September, 2019.



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Journals Published

- Shibin David, Jaspher W Kathrine, Augmenting Privacy For E Wallet Applications Using Ranked Keyword, International Journal of scientific & technology research, Vol. 8, Issue 09, 2019.
- John Livingston.S, Mirafs-Multi Image Resolution Quality Acuminate Fusing System, International Journal of Innovative Technology and Exploring Engineering, Vol. 8 Issue-10, August 2019.
- Arul Xavier V M,Annadurai S, Hybrid Starling Social Spider Algorithm for Energy and Load Aware Task Scheduling in Cloud Computing, International Journal of Innovative Technology and Exploring Engineering, Vol. 8, Issue 9, 2019.
- Jebaveerasingh J,J. Immanuel Johnraja,P. Getzi Jeba Leelipushpam,Nancy Eymal Samuel, Super-Resolution of Digital Images Using CNN with Leaky ReLU, International Journal of Recent Technology and Engineering, Vol. 8 Issue-228, 2019.
- Deepa Kanmani, Kirubakaran, E.,Elijah Blessing Rajsingh, Shamila Ebenezer, MIFCM: MICE imputed fuzzy C means clustering approach for effective skyline query processing on partially complete data, Journal of Ambient Intelligence and Humanized Computing, 2019.
- Shibin David, Jaspher W Kathrine, An Investigative Report On Encryption Based Security Mechanisms For E-Wallets, International Journal of Scientific and Technology Research, Vol. 8, Issue 10, October 2019.
- Robinson Joel. M, Ebenezer. V, Karthik. N, Rajkumar K, Advance dynamic network system of internet of things, International Journal of Recent Technology and Engineering, Vol. 8, Issue 3, 2019.
- Jeba Priya S, Naveen Sundar S, Narmadha D, Shamila Ebenezer S, Identification of weeds using color spaces and labelling with machine learning algorithms, International Journal of Recent Technology and Engineering, Issue 3, 2019.

PLACEMENT RECORDS

03

Nutanix Technologies
India Pvt Ltd

96

Accenture Services India Pvt Ltd,
Bangalore

06

Touch2Sucess Tech
Support

06

Hexaware Technologies

03

Infosys Technologies Ltd.,
Bangalore

11

NACKFOLG
Technoloies

03

Mitsogo

04

Nuchange Informatics

04

SMI

07

Full Creative

06

Touch2Success

45

TCS

02

Hyundai Mobis

03

Byju's

02

Nexential

01

Bay Leaf Digital

08

Bay Leaf Digital

06

Sopra Steria, Chennai

01

Coding Mart

05

IBM India

04

IBS

PLACEMENT RECORDS

03

SMI

07

TRIQUETRA

01

LITMUS 7

01

Avasoft Technologies

04

Prepaze

03

Talentio Solutions Pvt.,
Ltd., Hyderabad

11

Sutherland Global
Services, Chennai

03

ATOS SYNTEL



We feel ecstatic to inform
that the session of 2019-20
has brought us a total of
***256** placements.

* Till November 2019.

INTERNATIONAL AND NATIONAL INTERNSHIPS DONE BY STUDENTS

SHOURYA SHARMA

Internship: Innovation Development Lab,
Cairo University, Egypt.



SANDEEP M

Internship: University for Computer Science St.
Apostol Pavle, Macedonia.



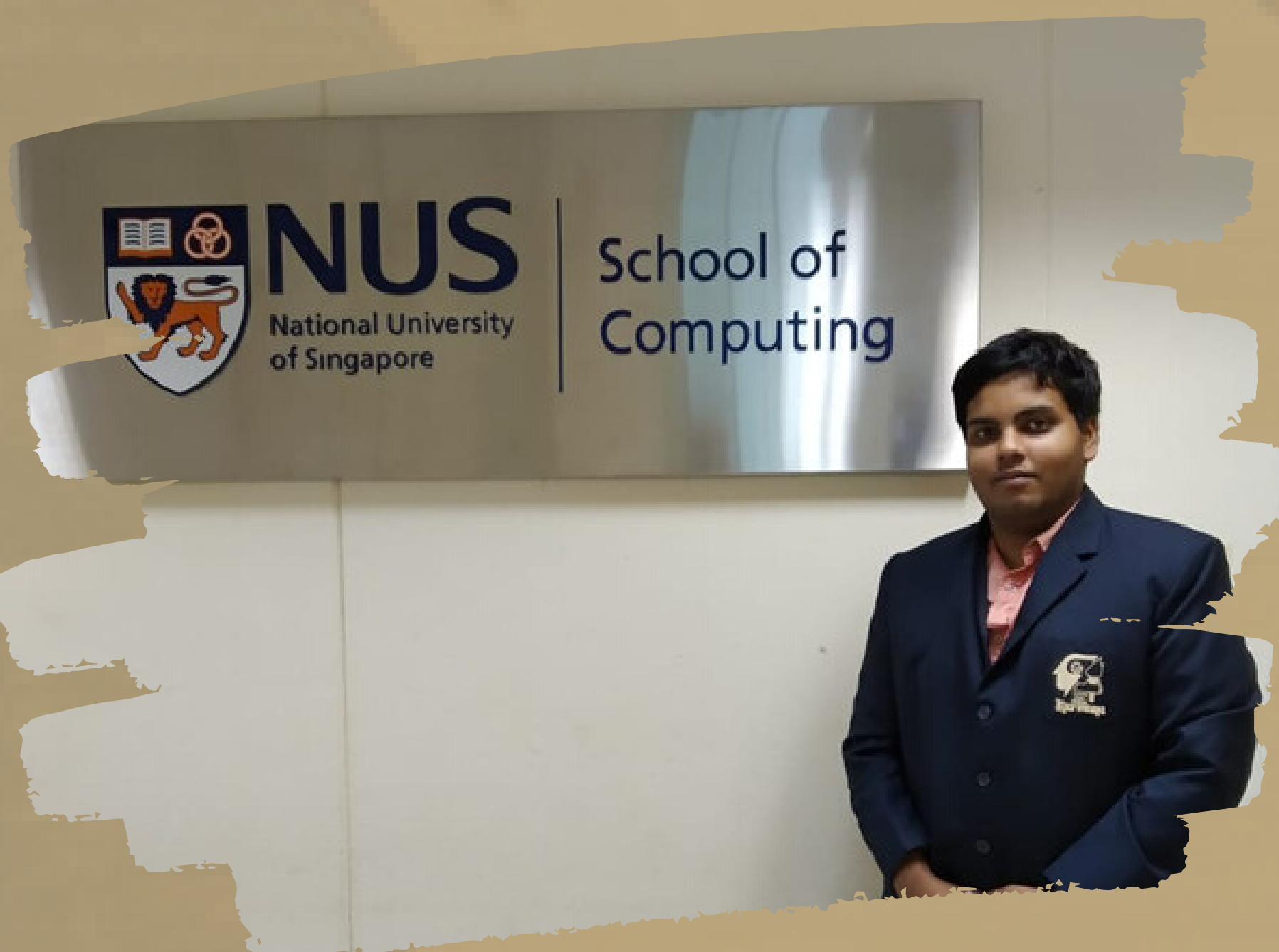
SAMUEL BINOY VARKEY

Internship : DRDO (Defence Research and
Development Organisation), Bangalore.



ALVINO ROCK. C

Internship : National University of Singapore
school of computing.

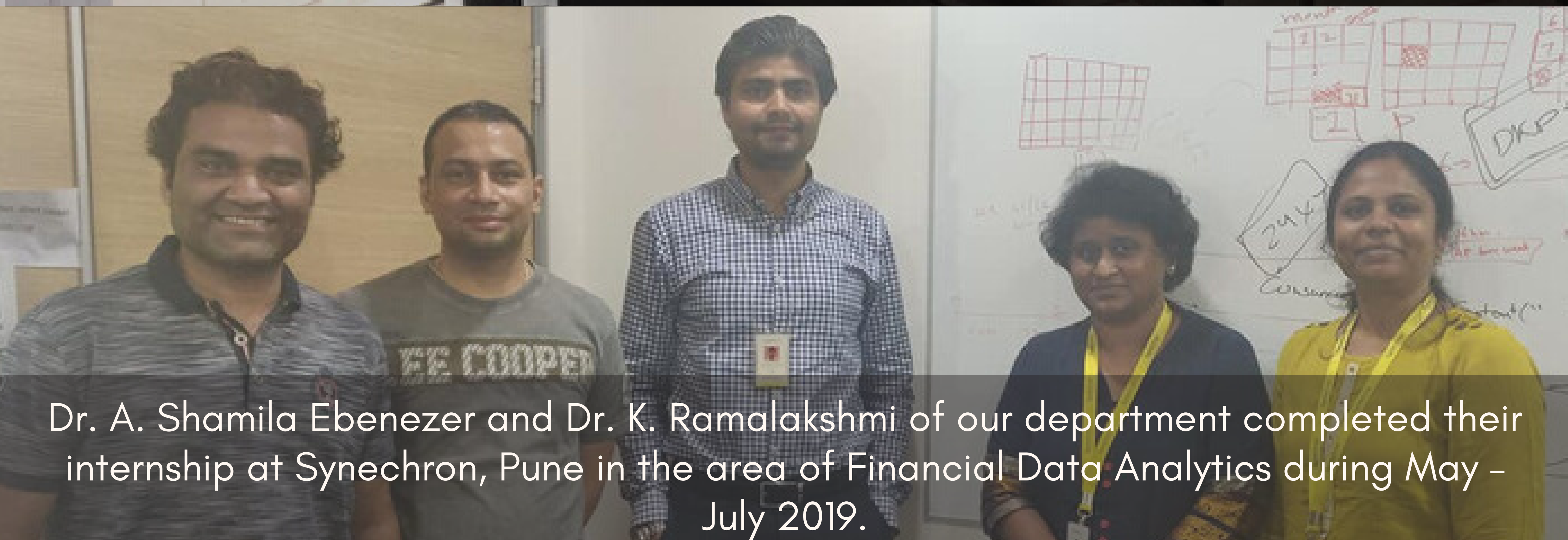


NISHEAL JOHN

Internship : 4S Information Technologies,
Turkey.



RECENT UPDATES



Dr. A. Shamila Ebenezer and Dr. K. Ramalakshmi of our department completed their internship at Synechron, Pune in the area of Financial Data Analytics during May – July 2019.

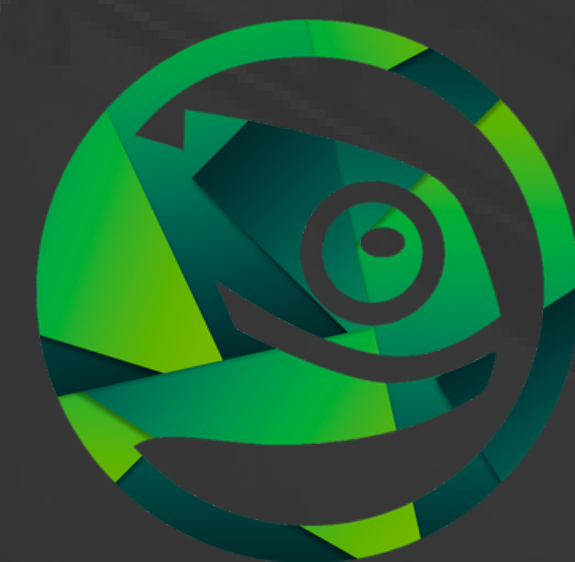


WE ARE GLAD TO INFORM YOU THAT 34 STUDENTS ARE ENROLLED IN DIFFERENT CERTIFICATION COURSES DURING THIS ACADEMIC YEAR.



Cisco Certified Network Associate (CCNA)

OUR DEPARTMENT
PROVIDES VARIOUS
CERTIFICATION
COURSES IN
COLLABORATION WITH
MANY CORE
COMPANIES



SUSE Certified Associate (SCA)



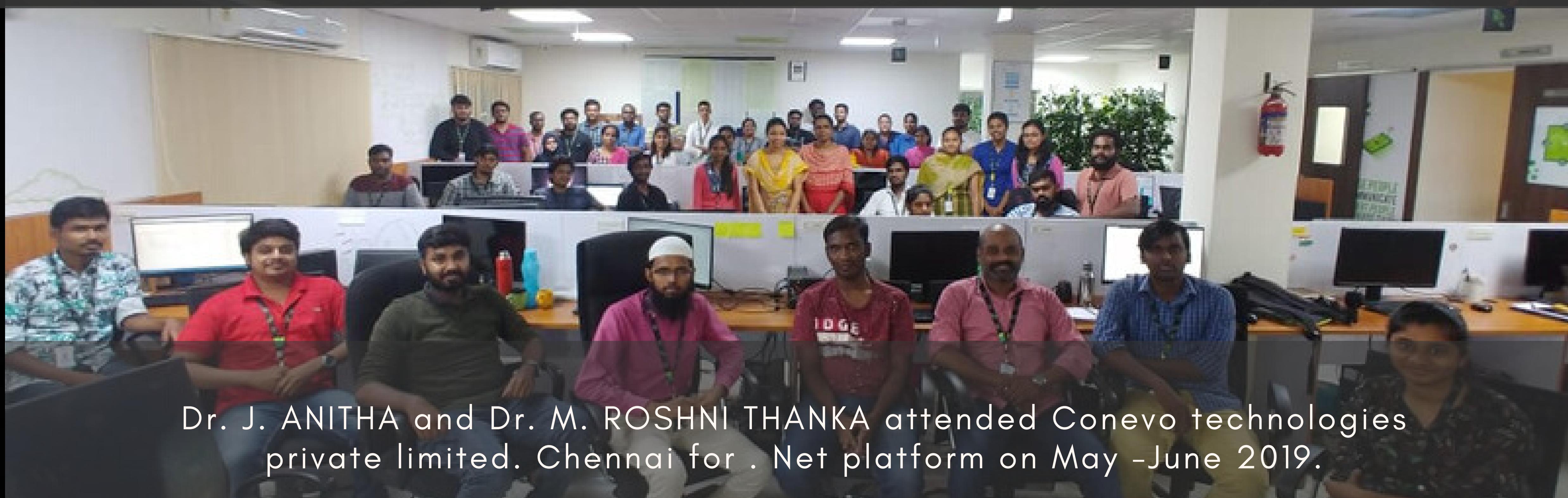
IBM Cloud Application Developer (IBM CAD)



Android Application Developer (AAD)



Red Hat Certified System Administrator (RHCSA)



Dr. J. ANITHA and Dr. M. ROSNI THANKA attended Conevo technologies private limited. Chennai for . Net platform on May –June 2019.

RECENT UPDATES

90+ STUDENTS OF OUR DEPARTMENT ARE DOING THEIR FINAL YEAR PROJECT IN GOVERNMENT AND IT INDUSTRIES



SAMUEL BINOY VARKEY

Exchange Administrator for India at the 72nd IAESTE Annual Conference held in Limassol, Cyprus.

D. SAMUEL JOSHUA VISWAS

Internship : Ben-Gurion University of the Negev, Israel.



KEVIN GAMAALIEL M

Internship : National University of Singapore school of computing.



University of Texas Dallas, US.

JEHOSHIBA , ASHISH KATURI, KEVIN MATTHEW, JOEL THOMAS AND MATTHEW ALONG WITH THE WHOLE GROUP CHERISHING THEIR SWEET MOMENTS IN UOT, DALLAS, US.



Dr. Immanuel John Raja
Head of the Department
Chief Editor



Mr. Sebastian Terence
AP/CSE
Faculty Editor



Mr. Ritik Binay
Student Editor



Ms. Aradhana Iris
Student Editor