



# K L University

(Koneru Lakshmaiah Education Foundation)

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Green Fields, Vaddeswaram, (via) K.C. Works P.O. - 522 502, Guntur District, A.P.

Phones: 08645-246948, 246615 ' FAX: 08645-247249, 0866-2577902

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## ACADEMIC STAFF COLLEGE

DEPT.CSE

24.03.2017

1-Day Workshop on “**FOG Computing & Internet of Things(IoT)**” by **Dr. Raj Kumar Buyya**, Professor & Director , Cloud Computing and Distributed Systems, University of Melbourne, Australia on 24-03-2017 for Faculty of Dept.CSE organised by the Academic Staff College and the Dept. of CSE

The Internet of Things (IoT) is generating an unprecedented volume and variety of data. But by the time the data makes its way to the cloud for analysis, the opportunity to act on it might be gone. This white paper, intended for IT and operational technology professionals, explains a new model for analyzing and acting on IoT data. It is called either edge computing or Fog computing:

- Analyzes the most time-sensitive data at the network edge, close to where it is generated instead of sending vast amounts of IoT data to the cloud.
- Acts on IoT data in milliseconds, based on policy.
- Sends selected data to the cloud for historical analysis and longer-term storage.

The fog extends the cloud to be closer to the things that produce and act on IoT data. These devices, called fog nodes, can be deployed anywhere with a network connection: on a factory floor, on top of a power pole, alongside a railway track, in a vehicle, or on an oil rig. Any device with computing, storage, and network connectivity can be a fog node. Examples include industrial controllers, switches, routers, embedded servers, and video surveillance cameras. IDC estimates that the amount of data analyzed on devices that are physically close to the Internet of Things is approaching 40 percent. There is good reason: analyzing IoT data close to where it is collected minimizes latency. It offloads gigabytes of network traffic from the core network, and it keeps sensitive data inside the network.

### Examples of Fog Applications

Fog applications are as diverse as the Internet of Things itself. What they have in common is monitoring or analyzing real-time data from network-connected things and then initiating an action. The action can involve machine-to-machine (M2M) communications or human-machine interaction (HMI). Examples include locking a door, changing equipment settings, applying the brakes on a train, zooming a video camera, opening a valve in response to a pressure reading, creating a bar chart, or sending an alert to a technician to make a preventive repair. The possibilities are unlimited.

## కంప్యూటర్ సైన్స్ లో గణనియ మార్పులు



ఆచార్య దాక్టర్ రాజీకుమార్ శు అభినందిస్తున్న కేఎల్ యూ ఆచార్యులు

List of the faculty attending the workshop

1	3105	Mr.T.SASIDHAR	Asst.Prof.	9848030624	<a href="mailto:sasidhar.talasila@kluniversity.in">sasidhar.talasila@kluniversity.in</a>
2	3648	Ms.T.SIVA PRIYA	Asst.Prof.	9493485636 / 030329820	<a href="mailto:sivapriyatummala@kluniversity.in">sivapriyatummala@kluniversity.in</a>
3	3680	Mr.J.SATISH BABU	Asst.Prof.	9985781568	<a href="mailto:jampanisatishbabu@kluniversity.in">jampanisatishbabu@kluniversity.in</a>
4	3683	Mrs.P.VIJAYA LAKSHMI	Asst.Prof.	9703625872	<a href="mailto:vijaya.paruchuri@kluniversity.in">vijaya.paruchuri@kluniversity.in</a>
5	3791	Mrs.M.SRI LAKSHMI	Asst.Prof.	9966221635	<a href="mailto:manchala.srilakshmi@kluniversity.in">manchala.srilakshmi@kluniversity.in</a>
6	3809	Mr.K.KARTHIK	Asst.Prof.	9000817990	<a href="mailto:kkarthik46@klunivrsity.in">kkarthik46@klunivrsity.in</a>
7	3847	Ms.M.ANILA	Asst.Prof.	9291246354	<a href="mailto:anila@kluniversity.in">anila@kluniversity.in</a>
8	3858	Mrs.T.SAJANA	Asst.Prof.	9542509790	<a href="mailto:sajana.cse@kluniversity.in">sajana.cse@kluniversity.in</a>
9	3880	Mr.V.VIJAY KUMAR	Asst.Prof.	9441217634	<a href="mailto:Vijaykumarvasantham@kluniversity.in">Vijaykumarvasantham@kluniversity.in</a>
10	3908	Mr.N.RAJESH	Asst.Prof.	9966645784	<a href="mailto:nrajeshcse@kluniversity.in">nrajeshcse@kluniversity.in</a>
11	3910	Mr. K.DAVID RAJU	Asst.Prof.	8121702286	<a href="mailto:davidrajukuppala@kluniversity.in">davidrajukuppala@kluniversity.in</a>
12	3915	Mr.S.SANDEEP KUMAR	Asst.Prof.	9010688566	<a href="mailto:ssandeep794@kluniversity.in">ssandeep794@kluniversity.in</a>
13	3916	Ms.J.YAMINI DEVI	Asst.Prof.	8106583905	<a href="mailto:j_yaminidevi@kluniversity.in">j_yaminidevi@kluniversity.in</a>
14	3918	Mr.V. KANTHA RAO	Asst.Prof.	9502595942	<a href="mailto:mail2kanthu09@kluniversity.in">mail2kanthu09@kluniversity.in</a>
15	3919	Mr.T.VEERAI AH	Asst.Prof.	9703132720	<a href="mailto:veeraiah3919@kluniversity.in">veeraiah3919@kluniversity.in</a>
16	3923	Mr.P.KALYAN CHAKRAVARTHY	Asst.Prof.	9440430910	<a href="mailto:chakri@kluniversity.in">chakri@kluniversity.in</a>
17	3934	Mr.V.NARESH	Asst.Prof.	9908109980	<a href="mailto:naresh.vurukonda@kluniversity.in">naresh.vurukonda@kluniversity.in</a>
18	3944	Mr.ADITYA KUMAR SAHU	Asst.Prof.	9439336373	<a href="mailto:adityasahu.cse@kluniversity.in">adityasahu.cse@kluniversity.in</a>
19	3998	Ms.L.LAVANYA	Asst.Prof.	7799588838	<a href="mailto:lavanyareddy@kluniversity.in">lavanyareddy@kluniversity.in</a>
20	4014	Ms.G.SAI SUDHA	Asst.Prof.	8686466433	<a href="mailto:saisudhagadde@kluniversity.in">saisudhagadde@kluniversity.in</a>
21	4056	Mr.M.CHANDAN	Asst.Prof.	9491115961	<a href="mailto:mcchakravarthy@kluniversity.in">mcchakravarthy@kluniversity.in</a>
22	4064	Mr.T.SRINIVAS RAO	Asst.Prof.	9966478424	<a href="mailto:tsrinivasarao@kluniversity.in">tsrinivasarao@kluniversity.in</a>
23	4093	Mr.M.VENKATA NARESH	Asst.Prof.	9849845169	<a href="mailto:mvnaresh@kluniversity.in">mvnaresh@kluniversity.in</a>
24	4108	Mr.G.KRISHNA CHAITANYA	Asst.Prof.	9246479903	<a href="mailto:gkc_chaitu@kluniversity.in">gkc_chaitu@kluniversity.in</a>
25	4150	Mr.K.VENKATANARAYANA	Asst.Prof.	9494966752	<a href="mailto:kvnarayana@kluniversity.in">kvnarayana@kluniversity.in</a>
26	4154	Mr.M.JEEVAN BABU	Asst.Prof.	9491664311	<a href="mailto:jeevan.chinna@kluniversity.in">jeevan.chinna@kluniversity.in</a>
27	4147	Mr.N.ANAND	Asst.Prof.	9505363924	<a href="mailto:mail2anand@kluniversity.in">mail2anand@kluniversity.in</a>
28	4152	Mr.SATYABRATA PATRO	Asst.Prof.	9949461083	<a href="mailto:satya_patro1@kluniversity.in">satya_patro1@kluniversity.in</a>
29	4159	Mr.A.RAMI REDDY	Asst.Prof.	9705370270	<a href="mailto:aramireddy@kluniversity.in">aramireddy@kluniversity.in</a>
30	4202	Ms.K.VARA LAKSHMI	Asst.Prof.	7036236888	<a href="mailto:varalakshmi.kOngalla@kluniversity.in">varalakshmi.kOngalla@kluniversity.in</a>
31	4233	Ms.M.DEVI KAVYA PRIYA	Asst.Prof.	8885362512	<a href="mailto:kavyapriyam@kluniversity.in">kavyapriyam@kluniversity.in</a>
32	4277	Mr.M.LASKHMANA PHANEENDRA	Asst.Prof.	9666966077	<a href="mailto:phanendra51@kluniversity.in">phanendra51@kluniversity.in</a>
33	4278	Mr.CH.RAMAIAH	Asst.Prof.	9966302375	<a href="mailto:ramaiah.challa@kluniversity.in">ramaiah.challa@kluniversity.in</a>
34	4279	Mr.G.ARUN KUMAR	Asst.Prof.	9952254714 8464022555	<a href="mailto:arunkumar.goge@kluniversity.in">arunkumar.goge@kluniversity.in</a>
35	4309	Mrs.A.ROSHINI	Asst.Prof.	8870225085	<a href="mailto:roshinicse22@kluniversity.in">roshinicse22@kluniversity.in</a>
36	4310	Mrs.S.SUNITHA	Asst.Prof.	9490494862	<a href="mailto:sunithacse79@kluniversity.in">sunithacse79@kluniversity.in</a>
37	4334	Mr.A.S.A.L.G.GOPALA GUPTA	Asst.Prof.	9948063950	<a href="mailto:amara_gupta@kluniversity.in">amara_gupta@kluniversity.in</a>
38	4299	Mr.V.SENTHIL MURUGAN	Asst.Prof.	9600657187	<a href="mailto:senthilmvs@kluniversity.in">senthilmvs@kluniversity.in</a>
39	4365	Ms.V.SUDHESHNA	Asst.Prof.	9052604180	<a href="mailto:sudheshna.vempati@kluniversity.in">sudheshna.vempati@kluniversity.in</a>
40	4374	Ms.K.SRINIDHI	Asst.Prof.	8179719179	<a href="mailto:srinidhi@kluniversity.in">srinidhi@kluniversity.in</a>
41	4384	Mr.SOUMYARANJAN JENA	Asst.Prof.	9437468510	
42	4400	Mr.CH.MOHAN KUMAR	Asst.Prof.	9963165351	<a href="mailto:mohankumar@kluniversity.in">mohankumar@kluniversity.in</a>
43	4401	Mr.M.TANOOJ KUMAR	Asst.Prof.	9492488477	<a href="mailto:mtanooj@kluniversity.in">mtanooj@kluniversity.in</a>
44	4390	Mr.M.SADASIVA RAO	Asst.Prof.	7730835421	<a href="mailto:sadasiva@kluniversity.in">sadasiva@kluniversity.in</a>
45	4422	Ms.D.DURGA BHAVANI	Asst.Prof.	7675025458	<a href="mailto:bhavani.dd@kluniversity.in">bhavani.dd@kluniversity.in</a>
46	4466	Mr.D.SARAVANAN	Asst.Prof.	9597788658	<a href="mailto:svsaravana@kluniversity.in">svsaravana@kluniversity.in</a>

## Attendance sheet for guest lecture

Sl.no	Emp id	Name of the faculty	Designation	10.00 am	2.00 pm
1	3105	Mr.T.SASIDHAR	Asst.Prof.		
2	3648	Ms.T.SIVA PRIYA	Asst.Prof.		
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