

February 2019

Rock River Valley Section

www.ieee.org/rrvs

Event

Sense

The Institute of Electrical and Electronic Engineers, Inc.

IEEE RRV Section, Computer and Controls Society Chapter Meeting
SERVING IEEE MEMBERS OF NORTH CENTRAL ILLINOIS AND SOUTH CENTRAL WISCONSIN

WHEN Thursday, February 28, 2019

WHERE

Rock Valley College
Woodward Tech Center
Room: WTC1308
3301 North Mulford Road
Rockford, IL 61114

AGENDA

6:00 PM Networking
6:30 PM Dinner
7:15 PM Presentation



Analyzing Text Documents with Text Analytics Algorithms

Vasu Raghavan
Deere & Co.

Text Analytics is a discipline that employs different algorithms to analyze text documents. In this introductory talk on Text Analytics, we will discuss briefly about the topic modeling method called Latent Dirichlet Allocation (LDA) and its applications. LDA models a generative process that represents documents as mixtures of topics and topics are modeled as a distribution of words. Topics and distributions are latent in the sense that they are not observed. LDA infers the clusters of topics and the distributions from the observed documents and the words contained in them. LDA and other Text Analytics algorithms find applications in many disciplines which include genetics, documents classification, legal, annotating images, and recommendation systems.

Vasu Raghavan is a mathematician, a computer scientist, and a data scientist. He has a Master's degree in Mathematics, a Master's degree in Computer Science, both from reputed universities in India, and a Master's degree in Predictive Analytics from Northwestern University, Evanston, Illinois. He has over thirty five years of experience in applied software research and more than five years of experience in data Science. He started his career as a developer of operating systems for one of India's indigenous computer manufacturers. Then he participated in India's effort to modernizing telecommunication network. He designed and developed software for implementing wide area data communication at Center for Development of Advanced Computing (formerly called Electronic Research and Development Center, Trivandrum, India). He also developed software for Digital Signal Processing. His current assignments include developing predictive models for business and engineering problems at Deere & Co. Moline, IL.

MEAL INFORMATION

Dinner entrée will feature your choice of Vegetarian or Non-Vegetarian meals.

Members & Student Members: FREE,
Non-members: \$10,
Student non-members: \$5
Presentation only: FREE

Please register online at

<https://events.vtools.ieee.org/m/193776>

or by emailing Diane Sennebogen at diane.brock@utas.utc.com by Thursday, Feb 28 at 1 pm. Please include the following: name, phone number, email address, and IEEE member number. The meeting is open to the general public.

IEEE Chicago/Rockford Consultants' Network March Meeting

WHEN Monday, March 25, 2019

WHERE

Harper College

Building H

Room: H130

1200 Algonquin Rd

Palatine, IL 60067

[Click here for parking information and a map of Harper College](#)



AGENDA

6:30 PM Networking

6:45 PM Presentation

IEEE1451: A Universal Standard for Sensors, or, How to Easily Make Everything Just Work

Robert Stamp, P.E.

NGC Technologies, LLC

With the revolution in the Internet of Things, smart everything, and data fusion, data from sensors is needed everywhere. This means that interfaces converting between the physical and virtual worlds are more and more vital. There are methods out there, from industrial standards of OPC, MODBUS, HART, Fieldbus, to custom interfaces on not-quite-standard I2C buses, and that's before you get online. These interfaces that make things "smart" require a lot of work which seems kind of dumb. So, are there any grand unifying standards that make it so you can just plug a device in and have it work? IEEE's 1451 family of standards, which have been around since the late 90's, do just that.

Robert Stemp is a licensed professional electronics engineer with 10 years of experience in the design of embedded and wireless sensor systems and new product development. After obtaining master's degrees in electrical engineering and systems engineering, he worked for several companies developing new technologies in a variety of fields from satellite, autonomous vehicles, medical devices, and industrial automation.

He is currently the President and Co-founder of NGC Technologies LLC, which helps clients develop their ideas, focusing on designing full product platforms that will grow with their businesses.

Guests are welcome. Attendees may earn 1 PDH.

IEEE Chicago/Rockford Consultants' Network: <https://ewh.ieee.org/r4/chicago/cn/>

IEEE Rock River Valley Section 2019 Calendar of Events

February 28: RRVS Section Meeting, Engineer's Week

March 25: Chicago Rockford Consultants' Network Meeting at Harper College, Palatine, IL

March 28: RRVS Section Meeting

April 19 NIU Student Branch Networking Social at Northern Illinois University

April 25: RRVS Section Meeting,

May 30: RRVS Section Meeting

June 11: EMC Seminar

June 27: RRVS Section Meeting, Annual Picnic and Officer Elections at Hamilton Sundstrand Park

August 29: RRVS Section Meeting

September 26: RRVS Section Meeting

October 31: RRVS Section Meeting

November 14: RRVS Section Meeting at NIU

*Dates and locations are subject to change

Stay Connected, Join us on Social Media

Facebook: <https://www.facebook.com/ieeerrvs/>

IEEE Collabratec: <https://ieee-collabratec.ieee.org/>

Missed a meeting? Check out our Google Drive for previous presentations.

IEEE RRVS Google Drive: <https://drive.google.com/a/ieee.org/>

1. Login with IEEE account
 2. On the left menu, click "Shared with me".
 3. Click on "Members Folder"
 4. Browse folders for past meeting presentations
-
-

2019 IEEE RRVS Executive Committee



Rakesh Vasudevan
Chair
rakeshv@ieee.org
815-226-4299



Terry Johnson
Vice Chair
Terry.Johnson@utas.utc.com
815-394-2447



Patrick Conner
Secretary



Adrian Vandergrift
Treasurer
aevandergrift@ieee.org
815-226-2518



Andrew Baker
Communications Chair
abaker@ieee.org



Jitendra Solanki
PACE Chair
J.solanki@ieee.org
815-394-5675



Joe Etminan
IAS Chapter Chair
joetminan@ieee.org
815-558-0007



Mark Harris
PELS Chapter Chair
m.harris@ieee.org
815-226-6098



Alkesh Patel
Computer & Controls
Chapter Chair
Alkesh.patel@ieee.org



Jamal Shafii
Co-EMI Chapter Chair
jamalshafii@ieee.org
815-394-5676



Steve Davidson
EMI Chapter Chair
steve.davidson@ieee.org



Larry Wachowiak
Life Members Chair
L.wachowiak@ieee.org



Marjan Shirani
WIE Chair
Marjan.shirani@hs.utc.com
815-394-2420



Prof. Don Zinger
NIU St Br Counselor
Educational Act. Chair
d.zinger@ieee.org
815-753-0540



Eduardo Vasquez
Young Professionals
Chair
evasquez@ieee.org



Bob Parro
Section Advisor
B.parro@ieee.org



Gary Blank
Section Advisor
G.L.Blank@ieee.org

Audrey Pearson
Educational
Activities Chair

Jaij Patel
Membership
Development Chair

Northern Illinois University IEEE Student Branch Officers

Northern Illinois University IEEE-HKN Officers



Fahad Mohammedhussein
Chair



Salman Alzobidy
Vice Chair



Mohammed Maaz Ali
Treasurer



Caleb Owen
Secretary



Mary Reinertson
President

Katie Berendt
Vice President &
Treasurer

Haley Tribo
Corresponding &
Recording Secre-



**IEEE Personal E-Mail Alias Service
with Free Virus Scanning**

The IEEE now offers an **Alias Service** in which all IEEE **members** can register a **personal alias** of their choice, which will forward E-Mail to their real internet e-mail address. Visit...

https://www.ieee.org/membership_services/membership/googleapps.html

Update Your IEEE Member Contact Info Online

<http://www.ieee.org/web/membership/home/index.html>

Join us on Facebook:

<https://www.facebook.com/ieeerrvs/>

Join us on LinkedIn:

<https://www.linkedin.com/groups/12087034>

IEEE Collabratec:

<https://ieee-collabratec.ieee.org/>

Rock River Valley Section Chapters

Industry Applications Society Chapter
Established 1992

Joint Computer/Control Systems Society Chapter
Established 1995

Power Electronics Society Chapter
Established 1996

Electromagnetic Compatibility Society Chapter
Established 2007

The Rock River Valley Section gratefully acknowledges the following companies and colleges for supporting Section Officers:

[Collins Aerospace](#) • [Northern Illinois University](#) • [Rock Valley College](#) • [River North Solutions](#)