



Newsletter published by
Computer Society Of India
Lucknow Chapter

TechWings@CsiLko

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Message from Regional Vice President Region - 1



ARVIND SHARMA

Regional Vice President
Region-I
Computer Society of India

Lucknow Chapter of Computer Society of India is a vibrant and active Chapter of Region-I. During the current COVID-19 situation also many events like Webinars, Lectures and other events were organized by the Chapter. Chapter had been instrumental in organizing Special programmes for student branches etc. also. It has collaborated with many colleges and bodies in organizing different events.

A **Newsletter is being published by the Chapter every quarter of the year** covering all the activities at the level of the Chapter. The hard work and efforts from the Members of Management Committee and its Office Bearers are quite evident in their news letters. I convey my gratitude and my best wishes for the Chapter. I am sure that the Annual Convention being organized in Lucknow from 11th -14th Feb., 2021 will be a memorable one for CSI fraternity and delegates participating.

With all the Best wishes.



Dr. Pankaj K. Goswami

Editorial Message from the Editor-in-Chief

Esteemed Members of CSI,

I am delighted to contribute my sincere efforts towards the publication of the newsletter of the Computer Society of India (CSI) Lucknow Chapter. The newsletters published by CSI Lucknow Chapter, are the true mirror image of the pathways of technological advancements also the reflection of the futuristic computing technologies. It's a platform for showcasing the innovative ideas and happenings at CSI Lucknow, in the multidisciplinary spectrum of contributions of members and other allied resource persons.

This year marks a milestone in the history of the newsletter because it comes with some important challenges and enhancements in indigenous computing technologies.

The publication of the newsletter encourages to publish more practice-based articles, state-of-the-art content and critical review articles.

I thank my associate editors, the entire editorial board, and reviewers for all their support. Together we would work towards making the newsletter a truly influential publication. Comments, suggestions, and special issue proposals are always welcome.

With best wishes,

Dr. Pankaj K. Goswami

Editor-in-Chief of TechWings@CsiLko, Newsletter

&

Chairman CSI-Lucknow Chapter

2020-2021

Message

I am extremely delighted in publishing such a series of quarterly newsletter TechWings@CsiLko. The future of everything is going to be around data. We can not think Artificial Intelligence, Smart Home, Smart City, Digital India without data. We are 17.80% of World's population while we have 2% of World's Data Centre space in India. Power/Energy is main fuel for Data Centre. In India, there are approximately a total of 400 MB Data Centres. India needs approximately 10 times more Data Centre capacity. The Government of India has announced in its Union Budget 2020 to roll out policy for establishing Data Centre parks in India.

The Government of India is committed to connect all the villages through broadband/optical fiber by 2022 under National Broadband Mission.

The Government of Uttar Pradesh has released Electronics Manufacturing Policy 2020 to accelerate the Electronics System Design and Manufacturing (ESDM) ecosystem development and Uttar Pradesh Information Technology and Start-Up Policy 2017-2022 for guiding and facilitating Investors, Entrepreneurs and Start-Ups.

H.C. GUPTA

Vice-Chairman (Chairman Elect)

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The Government has successfully commissioned automation of Fair Price Shops (FPS) in Public Distribution System (PDS) in UP. The system has impacted the lives of 14.70 crore beneficiaries (3.58 crore households) through ePoS devices installed at approximately 80,000 FPS in Uttar Pradesh with an integration of ICT and several innovative offerings in the digital and automation space.

I hope that the newsletter will benefit the CSI members and Institutions.

H.C. Gupta

Vice-Chairman (Chairman Elect)

CSI, Lucknow Chapter



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Message from the Editor

With immense pleasure, I have come out with latest edition of Quarterly Newsletter being published by Computer Society of India Lucknow Chapter and extend my best wishes to all Members and Management Committee & Nomination Committee CSI Lucknow Chapter for 2020-2021.

2. We all are going through pandemic of Covid-19 and staying at our home. During this crucial period of time, CSI Lucknow Chapter is regularly organizing Seminars through Online Mode to remain connected with Members and others inviting eminent CSI Head Quarter Dignitaries, eminent Speakers from different walks of Life to enrich us by sharing their valuable Knowledge.

3. I seek cooperation, support and active participation from CSI Members to contribute Technical articles to make the Newsletter TechWings@CsiLko more attractive & educative.

4. I request all to take good care of yourself, your family and every one by following Social Distancing, wearing Mask, maintaining hygiene and sanitization, Maintaining & Boosting Immunity.

Stay Safe, Stay Home. Let all be connected.

Vinay Kumar Johri

Editor

TechWings@CsiLko

Faculty Development Program (FDP) on Remote Sensing and Data Science with Software Reliability in Association with Computer Society of India (Region – 1) on May 16, 2020

Compiled by Dr. Nilu Singh

Lucknow in association with Computer Society of India (Region – 1) on 16th May 2020 with the aim of providing advance knowledge of different growing technical areas now days and the theme 'Remote Sensing and Data Science with Software Reliability'. The Programme addressed various aspects of advances and applications of Remote Sensing, Data science and software reliability and promoted faculty centric effective teaching-learning among the participants. The course was aimed for teachers who are teaching various disciplines of engineering and science subjects in colleges or Universities. There were 87 number of participants registered for this program from different Universities and Colleges of Uttarakhand, Uttar Pradesh, Bihar and all participants successfully completed the program.

The distinguished personalities were present in the programme viz. Mrs. Alka Das Hon'ble Chairperson, BBD Group as Chief Patron, Mr. Viraj Sagar Das Hon'ble President BBD Group, Ms. Sonakshi Das Hon'ble Vice President BBD University, Dr. A. K. Mittal Vice Chancellor BBD University as Patron. Dr. A. K. Mittal sent his blessings for successful conduct of the programme. The Gracious presence of Shri R. K. Vyas President Computer Society of India (CSI), Prof. A. K. Nayak, Immediate Past President CSI and Shri Arvind Sharma, Regional Vice President (Region-I) was commendable. The eminent speakers of the Program were Mr. Sushil Chandra Scientist SF & Head CIP&DM RSAC-UP India, Dr. Ajeet Kumar System Assurance Head Atkins Dubai (UAE) and Mr. Vinod Shankar Tripathi, Director, SKB Edutech Pvt. Ltd.

Mr. Vyas talked about programme focusing on the point as to how such type of programmes are fruitful for faculties and professionals also. In his inaugural address, Mr. Vyas stressed upon the paradigm changes from black/white board based teaching to modern ICT based teaching and learning as well as the importance of using online tools for teaching and evaluation in current scenario. He motivated organizers of the programme to conduct more such type of technical enhancement programmes for the targeted audience. Prof. A. K. Nayak talked about usefulness of IT in the current pandemic time and appreciated to organizing this kind of faculty development programs for teacher's knowledge enhancements. Prof Nayak said that in the current era technology is our need and is advantageous for our daily life.

A Webinar on Faculty Development Program (FDP) was successfully organized by School of Computer Applications, Babu Banarasi Das University

Mr. Chandra delivered talks on Remote Sensing and Reinforced Learning: the technology enabler to pandemic nCOVID19 relief operation in Uttar Pradesh. Mr. Chandra elaborated the various experimental results and the new research areas in this emerging field. Dr. Ajeet Kumar spoke on advances in 'Software Safety and Reliability for Safety-Critical Systems' with the various experimental results and future outcomes. Mr. Vinod Shankar Tripathi discussed on the Data Science: Business management and various aspects of data science in future. Mr. Tripathi discussed about the challenges of data science and future scope in this area with the participants. Participants were also relatively excited to have good experience of knowing all technical details of the different topics covered by speakers.

Shri Arvind Sharma Regional Vice President (RVP-Region 1) Computer Society of India graced the Participants of the program and congratulated the Organizing Committee for organizing a successful Webinar on Faculty Development Programme with the relevant topic of need of the hour. Mr. Sharma also talked about Computer Society of India and he also shared with the participants about the happening of National event of Computer Society of India in 2021. Prof. Prabhash Chandra Pathak also graced the valedictory program with encouragement of successfuly conduction of the FDP. The programme ended with vote of thanks given by Prof. Pathak.

The efforts of organizing committee consisting of Dr. Reena Srivastava Dean, SCA, BBD University as Organizing Secretary and Prof. Prabhash C. Pathak, Associate Prof. and Head of SCA, BBD University as Co-organizing Secretary and the committee members Dr. Vijay Prakash, Mrs. Kiran Jain, Dr. Nilu Singh were highly appreciated.



ARE WE HEADING TOWARDS THE END OF CLOUD COMPUTING on 30th May 2020

Compiled by Mr. Vinod Shankar Tripathi

Lucknow Christian Degree College, Dept. of Computer Science organized a webinar in association with Computer Society of India, Lucknow Chapter on 30 May, 2020 with the theme of webinar "Are we heading towards the end of Cloud Computing ?".

Prof. Bharat Bhasker, Director, IIM Raipur was the Key Note Speaker. Shri R.K. Vyas, President CSI presided over the function and Prof. A.K. Nayak offered the Opening Remarks. The programme started with prayers and after that Dr. (Mrs.) Pronoti Singh, Principal (offtg.) of the college welcomed the Guests.

Prof. Nayak emphasized on quantum computing and explained how the Cloud Computing might get replaced with the advent of Nano Technology. Shri R.K. Vyas stressed that the need of technological advancements is inevitable and so is the change in technology. He also mentioned that the events like this should be organized frequently as the next Annual Convention of CSI is going to be held in Lucknow.

Prof. Bharat Bhasker explained in very simple and convincing manner the Cloud Technology, how it works and the benefits of this technology. He also explained the importance of real time computing and why the delay of even one second can not be accepted. Then after establishing the working knowledge of Cloud Computing he explained the need for edge computing and future of Edge Services. Prof. Bhaskar explained the complex topic in a very simple and easy to understand way that even the non technical persons attending the webinar were satisfied to get an insight in the latest technology.



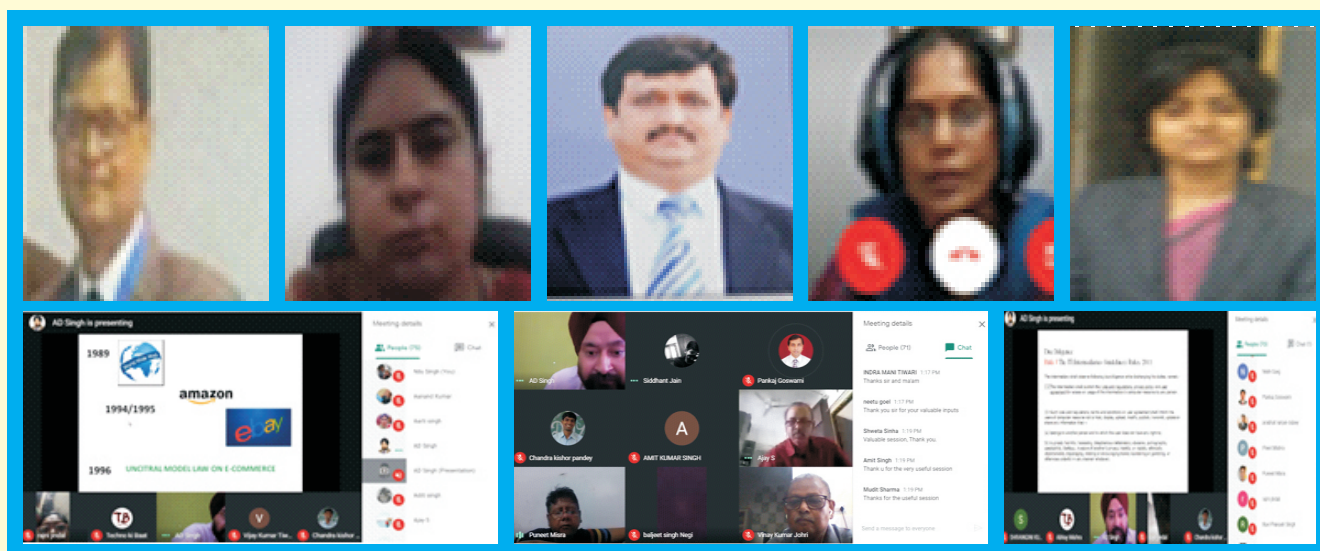
Regulating Cyber Space : The Emerging Problems & Challenges in Association with Computer Society of India (Lucknow Chapter) on 09th June 2020

Compiled by Dr. Nilu Singh

A Webinar on Regulating Cyberspace: The Emerging Problems and Challenges were successfully organized by School of Computer Applications, Babu Banarasi Das University Lucknow in association with Computer Society of India Lucknow Chapter on 09th June 2020. The aim of this webinar is to make awareness about cyberspace and other relevant factor of different cyberspace and its potential. The Programme addressed various aspects of IPR, patent, copyright, trademark among the participants.

Dr. Pankaj Goswami, Chairman CSI Lucknow Chapter, Mr. G. P Singh Immediate Past Chairman CSI Lucknow Chapter and Mr. Vinay Kumar Johri Hon. Secretary CSI Lucknow Chapter were present in the Webinar. The eminent speaker of the Programme was Dr. Amandeep Singh, Assistant Professor, Dr. Ram Manohar Lohiya National Law University, Lucknow. The programme started with the welcome address of Dr. Reena Srivastava, Dean, SCA, BBD University. Dr. Pankaj Goswami talked about CSI and forthcoming CSI events being organized by CSI Lucknow Chapter. Dr. Amandeep delivered talks on Cyberspace. Dr. Amandeep elaborated the various form of cyberspace and its emerging problems & challenges and its solutions. Participants from different institutions were also relatively excited to have good experience of knowing all aspect of cyberspace covered by speakers.

Mr. Vinay Kumar Johri, Hon. Secretary CSI Lucknow Chapter greeted the Participants of the webinar and the Organizing Committee Dr. Reena Srivastava Dean, SCA, BBD University Organizing (Secretary), Prof. Prabhash C. Pathak, Associate Prof. and Head of SCA, BBD University (Co-organizing Secretary), and other organizing committee members Dr. Vijay Prakash, Mrs. Kiran Jain, Dr. Nilu Singh for organizing a successful Webinar with the relevant topic of need of the hour. Prof. Prabhash Chandra Pathak also graced the valedictory programme with encouragement of successful conduct of the webinar. The programme ended with vote of thanks given by Prof. Pathak.



Webinar on Psycho-Social Impact of Pandemic: Challenges, Adjustment and Coping on 13th June 2020

Compiled by Dr. Pankaj Goswami & Sri Vinay Kumar Johri

Computer Society of India, Lucknow Chapter Management Committee organized a Webinar on Psycho-Social Impact of Pandemic: Challenges, Adjustment and Coping which was held on 13th June 2020 (Saturday) at 11.30 AM. Prof. R.K. Vyas, President Computer Society of India presided over the event. Sri Vinay Kumar Johri, Hon. Secretary CSI Lucknow Chapter welcomed the keynote speaker Prof. Nachiketa Tripathi, Prof. R.K. Vyas, Prof. A.K. Nayak, Sri Arvind Sharma and all the participants from Computer Society of India, Research Scholars, Academicians, Students etc.

The programme started with the welcome address by Sri G.P. Singh, Immediate Past Chairman CSI Lucknow Chapter who welcomed all and apprised about the Lucknow Chapter of CSI.

Prof. R.K. Vyas, President Computer Society of India blessed the Organizing Committee of the event and all the participants. He stressed upon e-Activities during this crucial period where it is not possible to meet in person.

Dr. Pankaj Goswami, Chairman CSI Lucknow Chapter welcomed Prof. Nachiketa Tripathi, the keynote speaker from Indian Institute of Technology Guwahati, Prof. R.K. Vyas, Prof. A.K. Nayak, Sri Arvind Sharma and all present in the Webinar. He made brief description of Prof. Nachiketa's profile and about the event. Dr. Goswami also mentioned quotes of famous psychologist Carl Rogers, "The good life is a process, not a state of being. It is a direction, not a destination." and famous Sociologist Dale Carnegie "When dealing with people, remember you are not dealing with creatures of logic, but creature of emotions."

Prof. Nachiketa Tripathi delivered his lecture on the Theme "Psycho-Social Impact of Pandemic: Challenges, Adjustment and Coping". He apprised the audience about the current pandemic of COVID-19 and its social, economic and psychological impact on the whole world. He mentioned that impact of COVID-19 is on all irrespective of Gender, Age profile etc. He also shared the data analysis done by John Hopkins, University of Medicine in respect of India. He stressed upon Positive Psychology focused on Psycap (Psychological Capital) and positive traits that enhance human performance and growth and a shift of thinking – from repairing what is broken to nurturing what is best. His delivery of speech was so easy to understand that a complex subject was such an easy take by all the participants that approx. 200+ inclined participants from different fields and different part of the Country got connected to their full extent which was reflected in the Question Answer session of the event.

Dr. Puneet Misra from Management Committee CSI Lucknow Chapter collaborated the Question & Answer session. The questions were compiled by him during the event and raised justifiably to answer by Prof. Nachiketa.

The webinar was concluded by Sri Harish Chandra Gupta, Vice Chairman (Chairman Elect) from CSI Lucknow Chapter, to delivered vote of thanks to Prof. Nachiketa Tripathi, Prof. R.K. Vyas, Prof. A. K. Nayak, Sri Arvind Sharma (Regional Vice President, Region – 1), Dr. Pankaj Goswami, all participants of Webinar and entire Management Committee CSI Lucknow Chapter.



Activities on International Yoga Day on 21st June 2020

Compiled by Miss Shivanshi Puri

Computer Society of India Lucknow Chapter organized activities on Yoga with this year's theme "Yoga at Home and Yoga with Family". The Participants were invited to exercise Yoga with their families at their home and share their photos. Many participants joined our initiative and some glimpses of Yoga Day Celebrations are appended here :



Webinar on BlockChain : Benefits in G2C (Government to Citizen) on 27th June 2020

Compiled by : Sri Vinod Shankar Tripathi

Computer Society of India, Lucknow Chapter Management Committee organized a Webinar on Block Chain : Benefits in G2C (Government to Citizen) which was held on 27th June 2020 (Saturday) at 11.30 AM. Prof. R.K. Vyas, President Computer Society of India presided over the event. Sri Vinay Kumar Johri, Hon. Secretary CSI Lucknow Chapter welcomed the keynote speaker Sri Harsh Kumar, Prof. R.K. Vyas, Prof. A.K. Nayak, Sri Arvind Sharma and all the participants from Computer Society of India, Research Scholars, Academicians, Students etc.

The programme started with the welcome address by Sri Harish Chandra Gupta, Vice-Chairman CSI Lucknow Chapter who welcomed Sri Harsh Gupta , the keynote speaker from Troology, Prof. R.K. Vyas, Prof. A.K. Nayak, Sri Arvind Sharma and all present in the Webinar. He made brief description of Sri Harsh Gupta's profile and about the event. He also apprised about the Lucknow Chapter of CSI.

Prof. A.K. Nayak, Immediate Past President Computer Society of India praised the activities being done by CSI Lucknow Chapter organizing various events on a regular basis. He cited the famous quote of Swami Vivekanand ji " Every covered and uncovered is discovered ". He stressed upon the importance of Block Chain Services viz. Government to Government, Government to Citizen and Citizen to Citizen with special emphasis on the Government to Citizen Services. He also mentioned about the Digital India movement and its 5 pillars. He apprised the Audience that Annual Convention is going to commence at Lucknow. Since the Webinars are being attended by the participants from all parts of Country and other Countries too, these are not the local Webinars but International Webinars. He also cited famous quotes from Bhagwad Gita.

Prof. R.K. Vyas, President Computer Society of India presided over the event and praised the Management Committee of CSI Lucknow Chapter for their regularly organizing the events. He thanked all the participants for joining the Webinar. He mentioned that forwarding to what Prof. Nayak said about the Block Chain services, generally we talk about Government to Industry. It is good that CSI Lucknow Chapter has organized the Webinar on Block Chain covering the services of Government to Citizen. He also mentioned that during this crucial time, Computer Society of India is doing very good by conducting Faculty Development Programmes by various Chapters and Regional Vice Presidents and thus maintaining databases of participants from all fields of Life. The databases so created may be used for inviting them to become CSI Members/Institutional Members. The benefit of their becoming CSI Members will be

that they will be connected to rest of the Country and will also take benefit of Technology. He also requested Dr. Pankaj Goswami, Chairman CSI Lucknow Chapter and Sri Arvind Sharma, Regional Vice President Region – 1 to send all such participants a mail to connect with CSI. He also mentioned that CSI Lucknow made a presentation at Executive Committee meeting about the forthcoming Annual Convention at Lucknow. He requested all to remain connected and remain safe.

Dr. Pankaj Goswami, Chairman CSI Lucknow Chapter welcomed the Key Note speaker, Sri Harsh Gupta, Prof. R.K. Vyas, Prof. A.K.Nayak, Sri Arvind Sharma and all the participants. He advised all that the feedback form is available requesting which type of Webinar all of you want to attend? He mentioned that Computer Society of India Lucknow Chapter is bridging the Gap between the Scholars and the Industry and today's topic is related to Block Chain which is being used by many Organizations viz. IBM, Oracle etc. He requested the key note speaker, Sri Harsh Gupta to cover the topic with a good mix of generic and technical details.

Sri Harsh Gupta delivered his lecture on the Topic “Block Chain : Benefits in G2C (Government to Citizen)”. The Concept of Block Chain, Database Structures, its Algorithms, Cryptography, peer to peer network, Data Storage, Security, Cost, Type of Block Chain, with various examples, Block Chain in Business, Use Cases by Select Industries, Block Chain being used by Telangana Government in various projects especiall in Land Registry, Niti Ayog recommendations eNAM, Block Chain services used by various Countries such as UK/Uganda/Brazil/Singapore/Europian Union/Estonia/Denmark/Dubai/SWaitzerland etc. was covered by Sri Harsh Gupta in a very easy to understand way which was such an easy take by all the participants that approx. 150+ inclined participants from different fields and different parts of the Country got connected to their full extent which was reflected in the Question Answer session of the event. Dr. Puneet Misra from Management Committee CSI Lucknow Chapter collaborated the Question & Answer session. The questions were compiled by him during the event and raised justifiably to answer by Sri Harsh Gupta.

Sri Arvind Sharma, Regional Vice President Region – 1 thanked all the participants for their enthusiastic response and praised CSI Lucknow Chapter for organizing the regular events. He mentioned that such Webinars are International events as participants from various parts of the Country & other Countries take active part in such events. He suggested that the events may be started with the Introduction and the session on the Topic . He requested that the word “atleast” be added in two events to be organized by CSI Lucknow Chapter. There may be more and more events in a month.

The webinar was concluded by Sri Vinay Kumar Johri, Hon. Secretary from CSI Lucknow Chapter and delivered vote of thanks to Sri Harish Chandra Gupta, Prof. R.K. Vyas, Prof. A. K. Nayak, Sri Arvind Sharma, Dr. Pankaj Goswami, Dr. Nilu Singh, Dr. Amitabha Yadav, all participants of Webinar and entire Management Committee CSI Lucknow Chapter.

Technical support for the smooth execution of the Webinar was provided by Sri Vinod Shankar Tripathi. Ms. Shivanshi Puri, Sri Gulab Chandra & Sri Pawan Kumar Nigam from Management Committee ensured smooth conduct of the event.



Invited Speaker Mr. Harsh Kumar

— *This marker is the beginning of the next newsletter, rather than the end.* —