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MESSAGE FROM HIS EXCELLENCY THE PRESIDENT

I am pleased to send this message of greetings to the 35th National Information Technology Conference (NITC), organised by the Computer Society of Sri Lanka (CSSL). I congratulate the organisers for expanding this national event into

a large regional and international event by partnering with South East Asian Regional Computer Confederation (SEARCC) to host the SEARCC Conference and also with International Federation of Information (IFIP) to host their international annual General Assembly, in partnership with NITC.

Information Technology is a truly global industry and I am impressed that CSSL, our national association for ICT professionals, has taken steps to connect Sri Lanka with the world with its important initiatives. I am also glad to hear that this event will be recorded as Sri Lanka's biggest ever international ICT event.

The government policy is to develop the national economy by emphasising the importance of a development economy where small, medium, and large scale projects need to be launched, and I am fully aware that ICT play a major role not only in the projects themselves but also in stimulating the economy by becoming a major foreign income earner for Sri Lanka, in addition to employment generation.

The young generation will carry us forward and ensure our legacy, only if we invest in their future. As such, projects such as the National Schools' Software Competition and IT Masterminds are truly commendable, for generating an active interest in ICT among the school goers.

The work of the CSSL is highly appreciable, and I believe that the Government and the CSSL can work hand in hand in achieving our goals.

I wish the 35th National IT Conference every success!

Maithripala Sirisena His Excellency the President

MESSAGE FROM THE PRESIDENT OF SEARCC

We have become used to economies across the world being reshaped by digital technologies, but we must now become used to them being revolutionised. If we thought that the disruption caused by the move from physical to on-line retailers was rapid, we will

find that the disruption caused by better data analytics and the mainstream emergence of Artificial Intelligence (AI) will be nothing short of revolutionary, as it transforms so many of our traditional economic activities.

And if we thought it was going to be straight forward, we only have to look at the exponential rise of cybercrime and the work that is needed in the field of cybersecurity to combat it.

With all of this change, we must now ask the questions:

- Will ICT professionals be able to keep pace with these changes?
- How can we possibly keep up with the increasing demand for ICT skills when we don't have enough practitioners at the moment?
- How will we persuade young people that ICT is a career to which they

MESSAGE FROM THE PRESIDENT OF CSSL

This event, which has grown to become Sri Lanka's biggestever international ICT event is a dream come true.

Sri Lanka for a long time had close ties with SEARCC (South East Asian Computer Confederation) for regional collaboration and IFIP (International Federation for

Information Processing) for global collaboration. With SEARCC, we have organised many a successful events in the past such as SEARCC Conferences. We had not organised something significant in collaboration with IFIP, which has over 40 countries as its members, a global reach that Sri Lanka can truly benefit from.

Recent CSSL Executive Councils took this as an opportunity as well as a challenge. I wish to note the forward thinking leadership of Past Presidents Mr Ajith Salgado (2014) and Dr Dayan Rajapakse (2015 & 16) who encouraged us towards this direction. I got elected as a board member of IFIP in 2015 becoming the first Sri Lankan to be on IFIP Board, putting further pressure on us to deliver something significant from IFIP to Sri Lanka.

What you see today is the result of work of over nearly four years, and also many more years of our association with IFIP. IFIP General Assembly where all country representatives gather for their annual meeting was confirmed for Sri Lanka, after we successfully presented our case. CSSL had committed to run a SEARCC branded Conference in parallel to CSSL's National IT Conference, and all that now happen on the same platform.

MESSAGE FROM THE PRESIDENT OF IFIP

As President of IFIP, the global federation of ICT professional associations (of which both CSSL and SEARCC are members), I am delighted to have the privilege of officially opening this event.

I congratulate CSSL on its outward-looking vision. By inviting

both IFIP and SEARCC to play an active role in NITC, CSSL has opened Sri Lanka's doors to the world, bringing a wealth of ICT expertise and thought leadership to Colombo and creating an unprecedented opportunity for international relationship building and information sharing.

This is what IFIP and our member societies do best – bringing people together from different contexts, cultures and experiences, to share their knowledge and collaborate on solving problems and creating new possibilities. The theme of this event: "Towards Digital Prosperity", speaks directly to IFIP's own commitment to advance professional and socially responsible ICT worldwide for the benefit of all people.

In our collaborations with the United Nations, UNESCO and ITU, we are working together to explore how technology can be applied to progress the UN's Sustainable Development Goals, particularly those relating to:

- Good health and well-being;
- Quality education;
- Clean water and sanitation;
- Affordable and clean energy;
- Decent work and economic growth;
- Industry, innovation and infrastructure;
- Reduced inequalities; and
- Sustainable cities and communities.

We believe that technology and the ICT professionals who create, develop, and implement that technology can play a significant role in enhancing the quality of life

MESSAGE FROM THE



This event runs over 6 days, bringing in representatives from nearly 50 countries, 25 international speakers, a large pool of sponsors and partners, a stronger academic component with IEEE as the technical partner and many other new inclusions. That is why this is Sri Lanka's biggest-ever international ICT event to date.

Just the brief profile of this event would clarify what an enormous task this is and detailed organizing required to put it together. I believe we have done justice to the best of our ability. CSSL Executive Council Members, Conference Chair Mr Prabath S Wickramaratne, Technical Program Chair Professor Samantha Thellijjagoda, Past President Chrisantha Silva and all other Past Presidents, Fellow Members, Members, Student Member volunteers, CSSL staff Zalmy Zanoosi, Krishni Hewage, Ruwangi Ishara, Jagath Perera & Ovini Melder, suppliers, sponsors and other stakeholders supported in this regard. This would not have been possible if not for their excellent contribution in numerous ways, keeping CSSL and Sri Lanka as the highest priority as we showcase Sri Lanka to the world and enrich Sri Lankan ICT industry.

As CSSL President, I only gave leadership but hard work was done by our team. This event is of such magnitude that even many years after this I can personally reminisce the achievement we had together as a team. We made history together!

Thank you!

Yasas Vishuddhi Abeywickrama President - Computer Society of Sri Lanka

for people in both developed and developing nations.

In this rapidly changing world, evolving technologies such as Artificial Intelligence, Robotics, Machine Learning, Cloud Computing, Big Data, the Internet of Things, and Mobile Computing are combining to disrupt traditional models and radically change how we live, work, interact, and do business.

While many of these breakthroughs and changes are enormously beneficial, they also bring tremendous uncertainty for many as traditional job functions become automated and human workers displaced. At the same time, we face significant and growing threats from cybercriminals and terrorists using these same technologies to attack and subvert all that we hold dear.

Ultimately, the power is in the hands of those who best understand how to design, build and maintain our ICT systems – and that's you, the ICT practitioners and professionals who make up our member societies.

Each of you has a clear responsibility to act professionally and ethically in all that you do. That means building quality systems that deliver the capability your clients have been promised, while ensuring that your solutions are socially responsible in supporting the needs and well-being of end users.

Together, we can all make a difference in shaping our world.

I believe this event and the potential collaborations that come out of it can similarly create new and socially responsible opportunities to improve outcomes for the people and businesses of Sri Lanka, enabling this dynamic nation to play an active and growing role in the digital economy.

I encourage each of you to make the most of your time at NITC/SEARCC. Take every opportunity to learn and expand your knowledge, to contribute your ideas and experiences, and to make connections that will expand your professional network and perhaps lead to future opportunities. Most of all, enjoy the conference!

Professor Mike Hinchey IFIP President





should aspire?

• How can we know that those who claim to have ICT skills really do have the skills that they claim? In a market where demand outstrips supply there is always a temptation to lower standards but this could be disastrous if we allow those without the requisite skills to design autonomous cars or "fly by wire" aircraft.

This is an area where ICT societies and associations can play a vital role by certifying and accrediting the skills possessed by individual professionals and by helping to ensure that there is adequate education and professional development available.

Across Asia and the Pacific, there are many different accreditations, certifications and standards but I am pleased to report that SEARCC is helping to address this by instigating a project to develop a Common ICT Skills Recognition Framework for the Asia-Pacific Region. We hope to work closely with the Asia Pacific Economic Co-operation (APEC) on this project.

Education and Professional Development is the most vital way in which professionals can keep up to date with the rapidly changing ICT environment and I would like to congratulate the Computer Society of Sri Lanka (CSSL) for hosting this outstanding conference which will undoubtedly allow all of us to learn from some of the very best exponents of our profession.

Welcome to the conference. I hope that you will learn much that will enrich both your own career and the careers of your colleagues.

Nick Tate President- SEARCC (www.searcc.org)



The Computer Society of Sri Lanka

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CONFERENCE CHAIR

It is with great pleasure I am conveying this message to welcome you for the 35th NITC 2017 in partnership with SEARCC International Conference alongside IFIP General Assembly to be held on 13th to 15th September 2017.

Having formed in 1976, CSSL as the country's apex body for

Information and Communication Technology professionals is geared to promote and develop the science of Information Technology and to encourage, increase, disseminate and enhance knowledge, education and training and the exchange of information and ideas among all stakeholders. Our efforts have certainly facilitated in terms of creating capacity, promoting professionalism, enabling inclusivity, and shaping the future of Sri Lanka.

Sri Lanka is poised to become a hub of knowledge, innovation, financial, and technology. Accordingly CSSL has strategically positioned its agenda in order to

Conference themed "towards digital prosperity" would certainly embrace Sri Lanka to achieve her objectives with the use of ICT as an enabler. With the IFIP General Assembly taking place in Sri Lanka alongside the conference, large number of local and foreign thought leaders, academia, and industry practitioners will also be taking part in the conference by providing more insights on present-day and future global challenges and developments in the field of ICT. The conference has been lined up under several current topics covering digital Inclusion, roadmap for CIO community, information security, better use of internet, and e-X.

I am confident that this conference will be beneficial to the talented personnel to acquire great wealth of knowledge and a booster to the journey of positioning Sri Lanka as an ICT hub in the region.

Prabath S. Wickramaratne Vice President of CSSL and the Conference Chair NITC/SEARCC 2017





National IT Conference (NITC) / SEARCC 2017 in Parallel to IFIP General Assembly

September - Invite	IFIP IP3 Committee Meeting es Only		
	IFIP Executive Committee Meeting		
a.m 4.00 p.m.	SEARCC ExCo Meeting		
	IFIP Committee Meeting		
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September - Invite	ees Only IFIP General Assembly Meeting		
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September			
0 a.m 5.00 p.m.	IFIP General Assembly Meeting - Invitees Only		
		uguration of SEARCC Conference in partnership with NITC, CSSL Awards, SEARCC	International Awards)
	: Main Conference		
0 a.m 9.00 a.m.	Registration		
	Common Session		
	Session Chair : Mr. Niranjan De Silva - CSSL Past President	mber of the ACS, Adjunct Professor at the University of Queensland, Managing D	iroctor and CEO of Haroldton Associat
0 a.m 7.40 a.m.	[Australia]	inder of the ACS, Aujunct Professor at the Oniversity of Queensiand, Managing D	nector and CEO of Haroluton Association
0 a.m 10.20 a.m.	Prof. KimDong Yoon : "Seoul Accord"- Professor Emeritus, Department of Softw	vare/ Honorary President KIISE/ Chair, Seoul Accord	
20 a.m 10.30 a.m.			
30 a.m 10.45 a.m.			
45 a m - 11 25 a m	Session Chair : Mr. Chandana Weerasinghe - CSSL Past President Mr. Indika De Soysa : "Digitally Inclusive Sri Lanka" Senior Consultant ICTAgen	ov Of Sri Lanka	
	Prof. Dr. Anirban Basu : "Green Software Engineering" - Past President, Compute		
		ement with Attribute-Based Credentials" - Deutsche Telekom Chair of Mobile Bus	iness & Multilateral Security, Institute
	Business Informatics, Goethe University Frankfurt [Germany]		
l5 p.m 12.25 p.m.			
25 p.m 1.25 p.m.	Lunch Parallel Sessions		
	CIO	Digital Inclusion	Paper Presentation Session
	Session Chair : Mr. Mahesh Perera - Past President - CSSL,Director, Information		1
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.25 p.m 2.05 p.m.	Dr. Yuko Murayama : "IT requirements in Disaster Management" - IFIP Vice President. An IPSJ fellow and serves as a secretary for IPSJ Special Interest Group on security psychology and trust (SIG on SPT). Senior life member of	Dr. Gabriela Marín Raventós : "Digital Equity and Gender Issues" - Universidad de Costa Rica [Costa Rica]	Academic Paper Presentations
	IEEE. [Japan]		
5 p.m 2.30 p.m.	Dr. Carlos Juiz Garcia : "IT Governance" - Dr. / Associate Professor, University of the Balearic Islands.	Dr. Kreps David : "Value Sensitive Design in Technology for People with Dementia" - University of Salford [United Kingdon]	
0 p.m 2.55 p.m.	Ms. Moira de Roche / Ms Ulandi Exner : "Responsive and Responsible	George Coldham (Vice Chair ACS Western Australian Branch) / David Cook	
	Leadership - The CIO role" - Professional Member and Fellows of IITPSA [South	(Edith Cowan University): "The Changing Acceptance of Virtual Reality in	
	Africa] &President of the Institute of Information Technology Professionals South Africa	Senior Citizens" [Australia]	
5 p.m 3.05 p.m.	Q&A	Q&A	Q&A
	Afternoon Tea		
	e-X	Digital Media & Broadcasting	Paper Presentation Session
3.20 p.m 4.00 p.m.	Session Chair : Prof. Mahesha Kapurubandara - Dean International at SLIIT	Session Chair : Dr. Prasanna Lokuge - Past President CSSL	
	Mr. Udana Wickramasinghe :"Demand Driven Development of Public e-Services: An Example from Sri Lanka Tourism " Director- ICT for Sri Lanka	Prof. Dr. Dimiter Velev : "5G Technology Usability for Societal Digital Prosperity" - University of National and World Economy, Sofia, Bulgaria	Academic Paper Presentations
	Tourism	[Bulgaria]	
.00 p.m 4.25 p.m.	Ms. Michelle Beveridge (Chief Information Officer - Intrepid) / Mr. Anu	Ms. Rishi Elias : "Search, Social and Amplification" - Digital Strategist -	
	Karunatilaka (General Manager - Intrepid Colombo) : "Digital Transformation in the Travel Industry" [Australia / Sri Lanka]	zMessenger	
5 p.m 4.50 p.m.	Prof. Igor Grebennik - "Decision making in Intellectual Systems" - Kharkiv	Mr. Yohan Ramasundara - "Startup disruption - how you could derive	
	National University of Radio Electronics	maximum value" - Secretary General, SEARCC [Australia]	
· ·	Q&A	Q&A	Q&A
	Raffle Draw 2 : Main Conference		
	Registration		
	Common Session		
	Session Chair : Mr. Yasas V. Abeywickrama - President, CSSL		
0 a.m 9.40 a.m.	Mr. Chevaan Devavarathan Daniel : "The Democratization of Communication T	Fechnology" - Group Director- The Capital Maharaja Organization	
0 a.m 10.20 a.m.	Ms. Brenda Aynsley : "Duty of Care for Everything Digital" - Past President, Aus	stralian Computer Society [Australia]	
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