



**Sur University** **College**  
**RESEARCH, PUBLICATIONS, CONSULTING AND**  
**COMMUNITY SERVICES**  
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## **From the Desk of *the Editors***

It gives us great pleasure to announce the commencing of a successful 7<sup>th</sup> year of research publications. By publishing the 1<sup>st</sup> Issue of Volume 7 of our Bi-Annual Bulletin of Research Publications (October 2015 – June 2016), SUC strives to sustain the “Research Publications, Consultancy, and Community Services”, originating from the new exquisite Sur University College campus.

The SUC management would like to appreciate the faculty members for their excelled research and publications in the leading journals and conferences around the world. This Bi-Annual Research Bulletin continues to inspire readers from in and around The Sultanate of Oman. SUC vows to continue its journey as a beacon of excellence in the researching of written publications among the higher educational institutions throughout the Sultanate of Oman. The intent of SUC is to continually spread awareness of the significance that research publications hold for the future growth and development of intellectual capital in the higher educational institutions, society, and the nation as a whole. This will also show case the rewards of an excellent SUC Strategic Plan by synergizing the focus on teaching and research projects that have led to publications around the world.

We would like to restate that the primary goal of this bi-annual bulletin is to “document, show case, appreciate, and publicize the many dedicated contributions of the faculty and other staff members of SUC towards research, publications, consultancy and community services”. We profoundly thank all the faculty members of SUC for their continuous unequalled support which has enabled us to reach a vital milestone of successfully entered our 7<sup>th</sup> year of publishing of the 13<sup>th</sup> issue (Vol. 7, No 1).

We also would like to sincerely thank the academicians, industry and the community in their entirety from The Sultanate of Oman, for their unwavering support and dedication to excellence. We at SUC have embarked on a journey to make this bi-annual bulletin an effective instrument of communication to academia and industry throughout the Sultanate of Oman. In the beginning of the seventh year, we are proud to exhibit the statistics of the publications achieved during the past years.

SUC would like to state proudly that the research and publication activities have reached 205 contributions including, (95 leading indexed journals, 9 leading national journals, 16 books or book chapters, 70 leading International and 15 National conferences). We are very proud to say that SUC could be claimed as one of the leading higher educational institutions housing some extremely talented and dedicated faculty members with significant research background. Also who are well versed in the cutting edge research works and have extensively contributed to the new age research through publications in leading International indexed /referred journals and conferences around the world. The SUC Bi-Annual Research Bulletin enjoys the uniqueness among the higher educational institutions in Oman. This brings awareness to the academia, industry and community of the benefits that research and developmental activities that are happening at SUC. Hence, we extend a warm welcome of the continuous support that academicians, industry and community share and collaborate with us to understand and utilize the many educational services provided by the Sur University College.



**Dr. Ali Al Jarrah, Associate Professor and Dean, Editor – in – Chief**  
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***Mr. B. Sriram, Lecturer / Quality Assurance Officer, Guest Editor***  
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## Contribution to Research, Publications, Consulting and Community Services by Faculty and Staff of SUC

**October 2015 – May 2016**

### Research Papers/Articles Published in Leading International Journals (Peer reviewed/Refereed/Indexed)

<i>Journal Details /</i>	<i>Research Title</i>	<i>Type / Area</i>	<i>Indexing</i>	<i>Faculty</i>	<i>Abstract / Summary</i>
International Journal of Smart Grid and Clean Energy ISSN: 2315-4462 (Print) 2373-3594 (Online) Volume -4 (Issue 4) – August 2015	Analysis of a solar assisted CaO/Ca(OH) <sub>2</sub> chemical heat pump drying system	Experimental / Mech Engn	Ulrich, CrossRef, DAOJ	Dr. Mustafa I. Fadhel  Saqaff A. Alkaff W.C. Teo K. Sopian	Toward the utilization of renewable energy for drying food and to reduce the environmental impact from using a fossil fuel energy, the solar assisted CaO/Ca(OH) <sub>2</sub> chemical heat pump drying system proposed to meet the demand in the drying field and for clean environment. In this paper the solar assisted CaO/Ca(OH) <sub>2</sub> chemical heat pump drying system designed and evaluated for tropical region. It consists of four main components: solar collector (evacuated tubes type), storage tank, solid-gas chemical heat pump and dryer chamber. The reaction used in the study is CaO/Ca(OH) <sub>2</sub> .
Asian Journal of Research in Banking and Finance, Vol 5, Iss 12. Dec 2015	The Evaluation and Current Status of Accounting in	Basic / Accounting	Ulrich, Proquest, Ebsco	Dr. Mahmoud Manayseh	

	the Sultanate of Oman				
<i>International Journal of Computer Science and information Security (IJCSIS). Vol. 14, No 1, January 2016</i> ISSN 1947 - 5500	Implementation and Security Development Online Exam, Performance and problems for online University Exam	Experimental / IT	EBSCO DOAJ PROQUEST	Mr. Mohammad Sarrayrih	This paper, I developed and Implemented a web-based Online Exam System application at Sur University College with some additional security features using biometric devices, network protocol and object oriented paradigms to improve Online examination systems.
Archives of Business Research, Vol 4, Issue 1  Feb 2016	User Satisfaction on Mobile Apps: An Analytical Study on Omani Business Environment	Basic / Information Systems	--	Dr. Salah AlKhafaji	
Indian Journal of Science & Technology, Vol 9, Issue 9 DOI: 10.17485/ijst/2016/v9i9/61902 Print ISSN : 0974-6846 Online ISSN : 0974-5645 March 2016	An Analytical Study on User Satisfaction on WiFi Services: A Case Study on Omani Undergraduate Environment	Applied / Education	SCOPUS, Web of Science	Mr. B Sriram  Mr. Mohd Al Sarrayrih	Most the higher education institutions provide various internet facilities to its students to motivate them in their learning processes. This study has been conducted to identify the Omani undergraduate user's satisfaction on the various Wi-Fi services provided to them to use in their learning processes.



<p>Education and Information Technologies Vol 21, No 4 – 729 – 745 – Springer – ISSN: 1360-2357</p> <p><i>March 2016</i></p>	<p>Factors Influencing Internet Resource User Satisfaction: An Analytical Study on Omani Learners</p>	<p>Applied / Information Systems</p>	<p>SCOPUS, EBSCO</p>	<p>B. Sriram</p>	<p>This paper analyzes the various characteristics of electronic resources that motivate the users to utilize the full potentials of the technology. An analytical study was conducted to measure the influences of these characteristics on Omani learners' in their learning processes.</p>
<p><i>International Journal of Advanced Computer Science and Applications, Vol. 7, No. 5, 2016 PP: 444 – 453</i></p> <p><i>May 2016</i></p>	<p>Load Balancing in Partner-Based Scheduling Algorithm for Grid Workflow</p>	<p>Applied / Information Technology</p>	<p>Web of Science</p>	<p>Dr. Gohar Ali Et al</p>	<p>This paper discusses the problem of load distribution and resource utilization in heterogeneous Grids in advance reservation environment. We have proposed an extension of Partner Based Dynamic Critical Path for Grids algorithm named Balanced Partner Based Dynamic Critical Path for Grids (B-PDCPG) that incorporates a hybrid and threshold based mechanism to achieve load balancing to an allowed value of variation in workload among the resources in Partner Based Dynamic Critical Path for Grids algorithm. The proposed load balancing technique uses Utilization Profiles to store the reservation details and check the loads from these profiles on each of the resources and links. The load is distributed among resources based on the processing element capacity and number of processing units on resources.</p>

<p>International Journal of Engineering and Technology Innovation, vol. 6, no. 2, 2016, pp. 92 - 101.</p>	<p>Interference Aware Real-Time Flows Scheduling in Cluster Based Wireless Sensor Networks</p>	<p>Applied / Information Technology</p>	<p>Scopus</p>	<p>Gohar Ali, KyongHoon Kim, Ki-Il Kim, Monther Aldwairi</p>	<p>In this paper real-time scheduling in wireless sensor networks, Time Division Multiple Access (TDMA) under cluster architecture is considered. Under this architecture, several type of inferences should be taken into account to allocate time slot. We concern the interference of a node which belongs to two clusters concurrently. Token based scheduling algorithm between two cluster heads is proposed to solve this problem. Token is given to each cluster head consequently so order of slot allocation is achieved automatically.</p>
<p>The Research Journal of Applied Sciences, Engineering and Technology, Maxwell Scientific Publication Corp., USA, ISSN: 2040-7459; e-ISSN: 2040-7467</p> <p>2016 (Vol. 12, Issue: 9)</p>	<p>An Extended Form of MATLAB To-Map Reduce Frameworks in HADOOP Based Cloud Computing Environments</p>	<p>Experimental / Cloud Computing</p>	<p>Scopus</p>	<p>Tamilvizhi T. , Parvatha VarthiniB. , Manoj. K, and R. Surendran</p>	<p>Aim of study to extend the implementation of Matlab to Mapreduce translation based on the M2M translation technique. Cloud computing is a service which provides services by handling massive amount of data. To handle it effectively it needs some technology like Hadoop. Hadoop is an open source project written in java. It is optimised to handle massive amount of data (structured, unstructured, semi-structured) through parallelism. Thus to achieve this parallelism Hadoop Distributed File System (HDFS) uses Mapreduce as a programming index. Here</p>

					proposing a translator which converts Matlab commands to Mapreduce commands especially concentrated in executing some basic commands in Mapreduce environment to access large datasets. Matlab is a very effective tool for numerical computing since executing this command in a platform independent, distributed environment makes it more efficient.
International Research Journal of Library and Information Science– ISSN: 2249-0213 Vol 6. No.2, 2016	A Bibliometric Analysis on Malaysian Journal of Library and Information Science	Basic / Library Science	ULRICH, ProQuest, EBSCOHost	MKG Rajev & Saju Joseph	The paper examines various pattern of the articles published in the Malaysian journal of library and information science (MJLIS) for the period of 2007 to 2013 and expose the results for the publications through bibliometric analysis. The study involves the patterns such as year wise distribution, length of articles, range of references, institutional affiliation of authors, subject categories, authorship pattern, demographic affiliation of author and number of citations.



## Under Publication Processes:

<b>Journal Details /</b>	<b>Research Title</b>	<b>Type / Area</b>	<b>Indexing</b>	<b>Faculty</b>
Electronic Journal of Information Systems Evaluation Last modified: May 16, 2016, ISSN 1566-6379	Mobile-based BCSSs for Health and Well-being	Information Systems for Behavior Change	CiteseerX	Langrial & colleagues
COMPUTER SCIENCE AND INFORMATION SYSTEMS Quarterly ISSN: 1820-0214	Adaptive TDMA Scheduling for Real-time flows in Cluster-Based Wireless Sensor Networks	Applied / IT	SCI (Exp), Scopus	Dr. Gohar Ali

## Under Review Process:

<b>Research Title</b>	<b>Type / Area</b>	<b>Faculty</b>
PLANNING ABND DEVELOPING MOBILE-BASED BCSSs FOR WELL-BEING	Experimental / Health IS	Langrial & colleagues
Performance Evaluation of ICT Infrastructure in the Academic Environment – A Study	Applied / Education	MKG Rajev
Perceived Usefulness of a Web-based Intervention for Mild to Acute Stress: A Case Study	Experimental / Health Information Systems	Dr. Sitwat Langrial
Web-based Assistive Technologies for Common Mental Disorders: A Research Agenda	Applied / Health Information Systems	Dr. Sitwat Langrial

### Books/Book Chapters Published Nationally/Internationally

Title of the Book/Book Chapters & faculty	Book/Publishers
Examining the Brand Communications Tools that Impact Brand Preferences of Women Consumer Buying Intentions: Empirical Investigation of Middle East  Prof. Dr. A M Sakkthivel and B Sriram	(Ed.) Theodosios Tsiakis. <i>Handbook of Research on Innovations in Marketing Information Systems</i> , IGI-Global, Hershey, PA, USA
Research Trends in LIS. Ch: Benefits and Challenges of E-Books: A Perception, MKG Rajev	AALIS, Bishop Heber College, India

### Book Editor & Author

Web-based Therapies for Mental Disorders  Dr. Sitwat Langrial	IGI Global – Work in progress
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**Conference / Seminar / Workshop – Presented / Conducted  
(National / International)**

<b>Author (s)</b>	<b>Title</b>	<b>Workshop/Seminar/Conference &amp; Faculty</b>
R. Bremananth and Hisham KH. Abujalban	A Robust Framework for Enhanced Multi-Intensity Analysis in Multi-Scenery Classification	2015 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT). IEEE 978-1-4799-7431-3/15/\$31.00 ©2015 IEEE <i>Nov 2015</i>
Dr. Arturo G. Palaming	Cross Age Tutoring	Classroom Best Practices - Ministry of Higher Education (Higher College of Technology – Al Khuwair, Oman) <i>Dec 2015</i>
Mr. Mohammad Al-Shallakh	Engaging, Educational, Effortless' Ideas and activities in the classroom	The ELT Professionals Network 2016 Conference - The British Council, Oman  February 2016
MKG Rajev	Empowering of Digital Learning Environment in Higher Education with reference to digital libraries	14 <sup>th</sup> National Conference on Issues and Challenges in Higher Education, Bishop Herber College (Autonomous), Tiruchirappalli, India. Feb, 2016
Dr Arturo G. Palaming	Generating Writing Ideas Using Journalistic Approach: Review	ELT: Ideal vs. Reality - Sultan Qaboos University, Oman April 2016
Dr. Sitwat Langrial	Information Systems for Improving Mental Health: Six Emerging Themes of Research	20 <sup>th</sup> Pacific Asia Conference on Information Systems (PACIS 2016) - Association of IS (AIS)  June 2016

**Internal Conference / Seminar / Workshop – Presented / Conducted**

<b>Author (s)</b>	<b>Title</b>	<b>Date &amp; Time</b>
Dr. Basil	Risk Tolerance Profile of Investors in Sultanate of Oman	17/03/2016
Mr Thomas Chandy	Corporate Governance and Ethical Issues – A study on the corporate governance failure at Satyam Computers, India”	29/03/2016
Mr Ali Abdullah	Shar’ah Supervision in Omani Islamic Banks.	05/04/2016
Dr Mahmood Farook	The role of Accounting on the basis of activity in Cost Management advanced Technical Facilities	12/04/2016
Dr. Laila Sayed Samea and Mr. M K G Rajiv	“The Researcher’s Tools in the Digital Age”	27/04/2016
Dr. Saed Adnan Mustafa	Programming on SPSS	03/05/2016
Dr. Bremananth. R	Computer Vision in medical imaging	22.02.2016
Dr. Salah Alkhafaj	User Satisfaction on Mobile Apps: An Analytical Study on Omani Business Environment	28.02.2016
Dr. Sadish Sendil.M	Research Areas – Distributed Computing	01.03.2016
Dr. Surendran. R	“Web Service”- Hands on Training	31.03.2016
Mr. Sriram. B	A Discussion on Statistical Tools for Research Methodology	14.04.2016
Dr. Sitwat Langrial	Computer Mediated Mindfulness	28.04.2016
Dr. Laura Strachan	Sustainability, Social Cohesion and the Falaj	09-12-2015

Dr. Mustafa I. Fadhel	Seminar on Engineering Outcome Based Education (OBE), Study Plan and Courses Outcomes	23-02-2016
Dr. Mustafa I. Fadhel	Seminar on Industrial Training Program (ITP) for Mechanical Engineering and Internship program (IP) for Architectural Engineering	23-02-2016
Dr. Mustafa I. Fadhel	<i>Linking ILO's in Teaching, Learning and Assessments</i>	15-03-2016
Mr. Bilal Amir	Workshop on Moodle System	14-06-2016
Kimberley Williamson, Susan Tabbu and Anahe Vale	ACADEMIC DISHONESTY	17-03-2016.



**Year-wise Progress of Research and Publications in SUC: 2001 -2016 (In Progress)**

**(Articles Published)**

<b>Publications</b>	<b>2001-2008</b>	<b>08-09</b>	<b>09-10</b>	<b>10-11</b>	<b>11-12</b>	<b>12-13</b>	<b>13-14</b>	<b>14-15</b>	<b>15-16</b>	<b>2016 – 2017*</b>	<b>Grand Total</b>
<b>International Journals (Indexed/Referred /Peer reviewed)</b>	0	1	8	13	16	21	13	8	12	7	99
<b>National Journals</b>	3	2	4	0	0	0	0	0	0	0	9
<b>Book/Book Chapters</b>	0	0	2	3	3	0	3	3	2	1	17
<b>International Conferences</b>	0	2	12	15	19	8	6	4	4	--	70
<b>National Conferences</b>	0	0	2	0	2	5	2	1	3	--	15
<b>Total</b>	3	5	28	31	40	34	24	16	21	8	210

- **In Progress\***

**Publication of No. of Articles –  
Mapping of No. of Journals Vs Country of Publication**

<b>No. of Articles</b>	<b>No. of Journals</b>	<b>Country</b>
10	3	Switzerland & UK
2	2	Canada
36	26	USA
3	3	Gulf Region
14	16	India
1	1	Oman
2	2	Pakistan
24	24	Other Countries



**Research Paper Publication in National & International Journals  
Department Wise Analysis AY 2015 - 2016**

Department	Total Number of Papers	Type of Research		
		Basic	Applied	Experimental
Business Admin	2	1	1	-
Information System & Technology	6	1	3	2
Engineering	2	-	-	2
English & Humanities	2	1	1	-
<b>Total</b>	<b>12</b>	<b>3</b>	<b>5</b>	<b>4</b>

**Research Paper Presentation in National & International Conferences  
Department Wise Analysis AY 2015 - 2016**

Department	Number of Papers
Business Admin	--
Information System & Technology	3
Engineering	-
English & Humanities	4
<b>Total</b>	<b>7</b>

**Research Publications Based on Indexing**

**AY 2015 - 2016**





Indexing	Number of Papers
Web of Science	2
Scopus	5
IEEE	1
Others	4
<b>Total</b>	<b>12</b>

**Statistical Analysis on Local Community Related Research Publications  
AY 2015 - 2016**

<b>Publications</b>	<b>2015 -2016</b>
<b>International Journals</b>	<b>7</b>
<b>National Journals</b>	<b>0</b>
<b>Book/Book Chapters</b>	<b>1</b>
<b>International Conferences</b>	<b>0</b>
<b>National Conferences</b>	<b>2</b>
<b>Total</b>	<b>10</b>

## Individual SUC Faculty Research Publication Statistics (Since 2010)

Faculty Name	Depart	International/ National Journals	International/ National Conferences	Book/ Book Chapters	Grand Total per Faculty
 <b>Mr. Sriram</b> <b>Lecturer – QA Officer</b>	IST	30	12	3	45
 <b>Mr. Rajev</b> <b>Lecturer &amp; LRC Manager</b>	LRC	9	13	6	28
 <b>Dr R Bremananth</b> <b>Associate Professor</b>	IST	13	5	0	18
 <b>Dr Salah Al Khafaji</b> <b>Associate Professor</b>	IST	10	5	1	16
 <b>Mr. Thomas Chandy</b> <b>Lecturer &amp; Acting Head of the Business</b>	BA	2	3	1	6

<b>Administration Department</b>					
 <b>Mr. Mohammad A Sarrayih , IT Lecturer</b>	<b>IST</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>
 <b>Dr. Dileep Kumar, Asst Prof (Finance &amp; Banking)</b>	<b>BA</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
 <b>Dr. Surendran – Asst Prof (IT)</b>	<b>IST</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>
 <b>Dr. Gohar Ali, Asst Prof (IT)</b>	<b>IST</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>