DILIP DATTA

(Updated at 11:52am on Wednesday 2^{nd} May, 2018)

1. Personal detail

0	Present status	: Professor, Department of Mechanical Engineering
		Tezpur University, Tezpur – 784028, Assam, India.
0	Contact Number	: +91-3712275865 (Office)
0	E-mail	: ddatta@tezu.ernet.in / datta_dilip@rediffmail.com
0	URL	: http://www.tezu.ernet.in/dmech/people/ddatta.htm

2. Teaching experience

Institute	Post	Period	Years	
Tezpur University	Professor	10-02-2014 to till date	—	
Tezpur University	Associate Professor	30-11-2011 to 09-02-2014	02 y 02 m 08 d	
NIT Silchar	Lecturer to Associate Professor	26-06-1995 to 25-11-2011	16 y 05 m 00 d	

3. Administrative experience

\circ HOD : Department of Mech	anical Engineering, Tezpur University
Period	: 06-06-2012 to 05-06-2015.
Major achievements	: - Started an M.Tech. Programme in 2013.
	– Started Ph.D. Programme in 2013.

4. Involvement in University-level other Academic/Administrative activities

\circ Member	:	Publication Committee on Book Section (PCBS), Tezpur University (2017–2019).		
$\circ \ {\rm Member}$:	: Committee to review and recommend the acceptance of <i>Plans of Research</i> of Ph.D.		
		programme under School of Engineering (since 2017).		
• Chairper	son:	Tezpur University Entrance Examination (TUEE) Committee (2016–2017).		
\circ Convenor	r :	Committee to review and update the Regulations on Academic Matters (2016).		
\circ Member	:	Planning Board, Tezpur University (2016).		
\circ Coordina	ator :	Committee to recommend uniformity in evaluation of M.Tech. Projects under School		
		of Engineering (2016).		
$\circ \ {\rm Member}$:	Committee to review and recommend the acceptance of <i>Plans of Research</i> of Ph.D.		
		programme under School of Engineering (2015–2017).		
\circ Member	:	Committee to suggest a uniform pattern of writing Bibliographic references in Ph.D.		
		theses (2015) .		
$\circ \ {\rm Member}$:	Committee to co-ordinate activities for an Integrated B.TechMBA pro-		
		gramme (2015).		
\circ Member	:	Committee to identify the courses and explore the syllabii from the National Vo-		
		cational Education Qualifications Framework (NVEQF) for offering B.Voc. Pro-		
		gramme (2013).		
\circ Member	:	Core Committee for Infrastructure Development for Jonai Campus (2013).		
\circ Member	:	Disaster Management Committee (2012–2015).		
$\circ \ {\rm Member}$:	B.Tech. Screening cum Selection Committee (BSSC) (2012).		

5. Involvement with other Academic Departments

- \circ Ext. Member : Departmental Research Committee (DRC) of CSE, TU (2016–2018).
- \circ Ext. Member : Departmental Research Committee (DRC) of Energy, TU (2016–2018).
- Ext. Member : Departmental Research Committee (DRC) of FET, TU (2016–2018).
- Ext. Member : Departmental Research Committee (DRC) of ECE, TU (2012–2016).
- Ext. Member : Departmental Advisory Committee (DAC) of ECE, TU (2012–2016).
- Ext. Member : Departmental Advisory Committee (DAC) of Energy, TU (2012–2016).

6. Educational qualifications

\circ Ph.D. :	Indian Institute of Technology Kanpur (IIT Kanpur), India (2007).
	Thesis Title: Multi-objective evolutionary algorithms for resource allocation problems.
	Supervisors: (i) Prof. Kalyanmoy Deb, IIT Kanpur.
	(ii) Prof. Carlos M. Fonseca, University of Algarve, Portugal.
\circ M.Tech. :	Indian Institute of Technology Delhi (IIT Delhi), India (1998).
	Thesis Title: Optimal shape design system for plates under dynamic loads.

- Supervisor: Prof. C.V. Ramakrishnan, Deptt. of Applied Mechanics, IIT Delhi.
- B.E. : Assam Engineering College, Gauhati University, Assam, India (1992).
- $\circ 10+2$: Assam Higher Secondary Education Council (AHSEC), Assam, India (1988).
- \circ 10+ : Assam Board of Secondary Education (SEBA), Assam, India (1986).

7. Honours, awards, and membership

- Post-doctoral fellowship grant (2008–2010), offered by Fundação para a Ciência e a Tecnologia (FCT), Ministério da Ciência, Tecnologia e Ensino Superior, Portugal (SFRH/BPD/34482/2006).
- National scholarship (1986–1992), offered by the Ministry of Human Resources Development (MHRD), Government of India.
- $\circ\,$ College honour for proficiency in a cademics (1992), offered by Assam Engineering College, Guwahati, Assam.
- Life member of Indian Society for Technical Education (ISTE), Membership number: LM 21969.

8. Research area: Optimization / Operational Research

- Theoretical development as well as applications of various population-based meta-heuristics, such as Genetic Algorithm (GA), Differential Evolution (DE), and Particle Swarm Optimization (PSO).
- Special emphasis to various real-life and practical multi-objective combinatorial problems of any domain, like engineering (mechanical, industrial, civil, electrical, computer, etc.), healthcare system, districting problem, computational biology, environmental problem, scheduling problem, etc.

9. Selective research contributions

- Development of a real-integer-discrete-coded particle swarm optimization (PSO) algorithm for working with any type of variables (real, integer or discrete) without conversion, which has a wide application in engineering design problems.
- Development of a real-integer-discrete-coded differential evolution (DE) algorithm for working with any type of variables (real, integer or discrete) without conversion, which has a wide application in engineering design problems.
- Proposed three convergence-based M-ary metrics for evaluating performances of multi-objective optimizers from their multiple runs.
- Formulation of facility layout design as an unconstrained optimization problem, which is being followed by many researchers.
- \circ Formulation of the corridor allocation as a bi-objective optimization problem.
- Development of a permutation-based genetic algorithm for facility layout problem, which has been recognized recently as one of the best techniques till date.
- Development of an integer-coded genetic algorithm for the graph partitioning problem, which has already been applied to many real case-studies.

10. Number of publications

Publication		Total
Book		01
Articles in International Journals		28
Book Chapters		11
Articles in International Conferences		15
Articles in National Conferences		04
	Overall Total	59

11. Research recognition

• Web of Science	: Documents -19 Citations -217 h-index -09
\circ SCOPUS	Average citation per item – 11.42. : Documents – 35 Citations – 316 citations by 269 documents <i>h</i> -index – 11 Co-authors – 26.
• ACM DL	: Publication count – 15 Citation count – 45 Average citations per article – 3.00
∘ DBLP	: Book – 01 Journal – 11 Book Chapter – 01 Conference – 05.
ORCIDGoogle Scholar	Number of documents – 25. Citations – 588 <i>h</i> -index – 14 i10-index – 17.

12. Ph.D. Theses supervision

SN	Name of Scholar	Thesis Title	Year
5	Pooja Dutta	To be decided	Ongoing
4	Dimbalita Deka	Optimization of continuous flow processes using Evolutionary Algorithms	Ongoing
3	Satadru Kashyap	High density polyethylene composites filled with industrial lime sludge waste	Ongoing
2	Zahnupriya Kalita	Facility layout design optimization using genetic algorithm	Ongoing
1	Abhijit Deka	Multi-objective optimization of annular fins	Submitted

13. M.Tech. Theses supervision

SN	Name of Scholar	Thesis Title	Year
10	Arpeeta	Stability of female bicyclists on sudden braking	Ongoing
9	Sudipta Saikia	Stability of female bicyclists on slow riding	Ongoing
8	Punyajit Bezbaruah	Characterization of SMA wire for energy dissipation	2017
7	Numan Siddique Mazumdar	Multi-objective optimization of micro-heat pipe using genetic algorithm	2016
6	Dimbalita Deka	Multi-objective optimization of heat treatment process under milk fouling	2015
5	Deepak Kumar Gupta [*]	Detection and localisation of a crack in a shaft system	2015
4	Pankaj Kumar Nath*	Hardware/software partitioning of embedded systems using evolutionary	2012
		algorithms (NIT - Silchar)	
3	Saptarshi Dutta	Mixed-integer metaheuristics for unit commitment problem (NIT - Silchar)	2011
2	Sujoy Chakraborty*	Numerical studies on effects of blade number variations on performance	2011
		of centrifugal pumps (NIT - Silchar)	
1	Akan Kumar Das	Optimization of process parameters of advanced machining processes by	2010
		using a genetic algorithm (NIT - Silchar)	

Joint supervision.

14. Research collaborative Institutes

- o Instituto Superior Técnico, Lisbon, Portugal
- Pontifical Catholic University of Paraná, Paraná, Brazil
- Positivo University, Curitiba, Paraná, Brazil
- Federal University of Paraná, Paraná, Brazil
- London School of Economics and Political Science, London, UK
- University of Southampton, Southampton, UK
- University of Western Ontario, Ontario, Canada
- Kaunas University of Technology, Kaunas, Lithuania
- Gauhati University, Guwahati
- Assam University, Silchar.

15. Association with publishers

• Member of the Editorial Board of the Journal of *Trends in Machine Design*, http://stmjournals.com/Trends-in-Machine-design.html

16. PC member

- Genetic and Evolutionary Computation Conference (GECCO): 2014 (Vancouver, Canada), 2015 (Madrid, Spain), 2016 (Denver, Canada), 2017 (Berlin, Germany), 2018 (Kyoto, Japan).
- International Conference on Simulated Evolution And Learning (SEAL): 2010 (Kanpur, India).
- International Symposium on Aspects of Mechanical Engineering & Technology for Industry (AMETI) (Arunachal Pradesh, India, 2014).

17. Book publication

\mathbf{SN}	Author	Title	Publisher
1	D. Datta	IAT_EX in 24 Hours – A Practical Guide for Scientific Writing	Springer International Publishing
		ISBN: 978-3-319-47831-9 url: https://www.springer.com/in/book/9783319478302	

18. Publications in International Journals

SN	Publication detail	IF	Citation
28	S. Kashyap [*] and D. Datta (2018). Evaluation of stearic acid modified industrial lime sludge waste	0.658	_
	as filler in high density polyethylene composites. Journal of Polymer Engineering, $38(4):333-341$,		
	doi: https://doi.org/10.1515/polyeng-2017-0138		
27	A. Deka and D. Datta (2018). Multi-objective optimization of annular fin array with	1.500	-
	B-spline curve based fin profiles. Journal of Thermal Stresses, $41(2):247-261$, doi:		
	http://dx.doi.org/10.1080/01495739.2017.1393321		
26	S. Kashyap [*] and D. Datta (2017). Industrial lime sludge waste – HDPE composites – a study	0.903	_
	of their mechanical, thermal and morphological properties. Journal of Thermoplastic Composite		
	Materials, doi: https://doi.org/10.1177/0892705717738289		
25	Z. Kalita, D. Datta [*] , and G. Palubeckis (2017). Bi-objective corridor allocation problem using	2.742	—
	a permutation-based genetic algorithm hybridized with a local search technique. Soft Computing,		
	doi: https://doi.org/10.1007/s00500-017-2807-0		
24	P.J. Steiner Neto, D. Datta, M.T.A. Steiner [*] , O. Canciglieri Jr., J.R. Figueira, S.P. Detro,	2.859	—
	and C.T. Scarpin (2017). A multi-objective genetic algorithm based approach for location of		
	grain silos in Parana State of Brazil. Computers & Industrial Engineering, 111:381–390, doi:		
	https://doi.org/10.1016/j.cie.2017.07.019		
23	S. Kashyap [*] and D. Datta (2017). Reusing industrial lime sludge waste as a filler	-	-
	in polymeric composites. Materials Today: Proceedings, $4(2)$ Part A:2946–2955, doi:		
	https://doi.org/10.1016/j.matpr.2017.02.176	1 100	
22	A. Deka [*] and D. Datta (2017). B-spline curve based optimum profile of annular fins	1.493	01
	using multi-objective genetic algorithm. Journal of Thermal Stresses, $40(6)$:733–746, doi:		
	http://dx.doi.org/10.1080/01495739.2016.1276419	0.005	
21	A. Deka and D. Datta [*] (2017). Geometric size optimization of annular step in using multi-	0.985	01
	objective genetic algorithm. Journal of Thermal Science and Engineering Applications, $9(2):021013$		
	(9 pages), doi: http://dx.doi.org/10.1116/1.4038388	4.007	00
20	D. Deka and D. Datta (2017). Multi-objective optimization of the scheduling of a	4.627	02
	neat exchanger network unaer mik jouing. Knowledge-Based Systems, 121:11-82, doi:		
10	http://ax.aoi.org/10.1010/j.knosys.2010.12.021		19
19	5. Rashyap and D. Datta (2015). Frocess parameter optimization of plastic infec-	_	12
	the molarity u review. International journal of Flastics feelinology, 19(1):1–16, doi: $b \neq 0$ (1):1017(1):102(1):1017(1):102		
18	MTA Steiner D. Datte* P. Steiner Note, C.T. Scarpin, and I.B. Figueira	4 376	20
10	(915) Malli, chinetino entimisation in partitionine the healthcare sustant of Dama Citate	4.570	20
	2015). Multi-bojective optimization in partitioning the neutricate system of 1 and 1 state		
	<i>in Diaza.</i> Onega, the international John of Nanagement Science, 52 .55–64, doi: http://dx.doi.org/10.1016/j.org/s2.2014.10.005		
17	T Kalita and D Datta* (2014) Salaina the highlighting corridor allocation problem using	2 454	06
11	a normatation-based genetic algorithm Computers & Operations Research 52:123-134 doi:	2.404	00
	bttp://dx.doi.org/10.1016/j.cor.2014.07.008		
16	PK Nath and D Datta* (2014) Multi-objective hardware-software partitioning of em-	3 222	19
10	bedded sustems: a case study of IPEC encoder Applied Soft Computing 15:30-41 doi:	0.222	10
	bithe //dx doi org/10 1016/i asoc 2013 10 032		
15	D. Datta (2013) Unit commitment problem with ramp rate constraint using a	3 222	35
1	binary-real-coded genetic algorithm. A policy Soft Computing 13(9):3873-3883 doi:	0.222	00
	http://dx.doi.org/10.1016/j.asoc.2013.05.002		
14	D. Datta* and J.R. Figueira (2013). A real-integer-discrete-coded differential evolution. Applied	3.222	24
	Soft Computing, 13 (9):3884-3893, doi: http://dx.doi.org/10.1016/j.asoc.2013.05.001		

Continued on the next page...

Publications in International Journals (contd...)

SN	Publication detail	IF	Citation
13	D. Datta, J.R. Figueira, A. Gourtani and A. Morton* (2013). Optimal administrative ge-	1.156	06
	ographies: an algorithmic approach. Socio-Economic Planning Sciences, 47(3):247-257, doi:		
	http://dx.doi.org/10.1016/j.seps.2013.03.002		
12	N. Ahmed [*] , S. Sengupta and D. Datta (2013). An exact analysis for MHD	1.104	06
	free convection mass transfer flow past an oscillating plate embedded in a porous		
	medium with Soret effect. Chemical Engineering Communications, 200(4):494–513, doi:		
	http://dx.doi.org/10.1080/00986445.2012.709474		
11	D. Datta [*] and S. Dutta (2012). A binary-real-coded differential evolution for unit commit-	1.574	62
	ment problem. International Journal of Electrical Power & Energy Systems, 42 (1):517–524, doi:		
	http://dx.doi.org/10.1016/j.ijepes.2012.04.048		
10	D. Datta*, J. Malczewski and J.R. Figueira (2012). Spatial aggregation and compactness of	0.983	09
	census areas with a multi-objective genetic algorithm: a case study in Canada. Environment and		
	planning B: Planning and Design, 39 (2):376–392, doi: http://dx.doi.org/10.1068/b38078		
9	D. Datta [*] and J.R. Figueira (2012). Some convergence-based M-ary cardinal metrics for compar-	2.454	14
	ing performances of multi-objective optimizers. Computers & Operations Research, 39:1754–1762,		
	doi: http://dx.doi.org/10.1016/j.cor.2011.10.013		
8	D. Datta [*] , A.R.S. Amaral and J.R. Figueira (2011). Single row facility layout problem using a	2.911	109
	permutation-based genetic algorithm. European Journal of Operational Research, 213(2):388–394,		
	doi: http://dx.doi.org/10.1016/j.ejor.2011.03.034		
7	D. Datta [*] and J.R. Figueira (2011). Graph partitioning by multi-objective real-valued	3.222	20
	metaheuristics: A comparative study. Applied Soft Computing, $11(5):3976-3987$, doi:		
	http://dx.doi.org/10.1016/j.asoc.2011.01.044		
6	D. Datta [*] and J.R. Figueira (2011). A real-integer-discrete-coded particle swarm	3.222	33
	optimization for design problems. Applied Soft Computing, $11(4):3625-3633$, doi:		
	http://dx.doi.org/10.1016/j.asoc.2011.01.034		
5	M. Ghosh, B.K. Tiwary and D. Datta [*] (2010). Maintaining optimal state prob-	0.447	01
	abilities in biological systems. Systems and Synthetic Biology, $4(2)$:117–124, doi:		
	http://dx.doi.org/10.1007/s11693-010-9058-z	1.000	
4	D. Datta [*] , C.M. Fonseca and K. Deb (2008). A multi-objective evolutionary algorithm to ex-	1.028	23
	plot the similarities of resource allocation problems. Journal of Scheduling, $11(6):405-419$, doi:		
	http://dx.doi.org/10.100//s10951-008-00/3-9		61
3	D. Datta [*] , K. Deb, C.M. Fonseca, F.G. LODO, P.A. Condadoand J. Setxas (2007). Multi-objective	_	01
	evolutionary algorithm for land-use management problem. International Journal of Computational		
	Intelligence Research, 3(4):3/1-384. KanGAL Iech. Report No. 2000005 (2006), 11 - Kanpur.		
2	D. Datta (2000). An efficient technique for nanaling infeasionity in sequential linear program-	_	-
	<i>numuy menioa</i> . Journal of Computational Mathematics and Optimization, ISSN:0972-9372, 2 :11–		
	194. D. Dotto* and K. Dah (2006). Design of antimum areas sections for last some in a markers.		08
1	using multi objective evolution and algorithms. International Journal of Systemics Cylonetics	_	00
	and Informatical ISSN-0073 4864 1(1):57-63		
	and informatics, $15513.0376-4004$, $1(1):37-05$.		

19. Publications as book chapters

SN	Publication detail	Citation		
11	Z. Kalita and D. Datta [*] (2018). Corridor allocation as a constrained optimization problem using a			
	permutation-based multi-objective genetic algorithm. In: Metaheuristic Optimization Methods: Algo-			
	rithms and Engineering Applications, Springer (to appear)			
10	Z. Kalita and D. Datta* (2018). The constrained single-row facility layout problem with repairing mech-			
	anisms. In: Metaheuristic Optimization Methods: Algorithms and Engineering Applications, Springer			
	(to appear)			
9	A. Deka and D. Datta [*] (2018). Geometric size optimization of annular step fin array for heat transfer			
	by natural convection. In: Metaheuristic Optimization Methods: Algorithms and Engineering Applica-			
	tions, Springer (to appear)			
8	D. Deka and D. Datta [*] (2018). Evolutionary algorithms for scheduling of crude oil preheating process	-		
	under linear fouling. Bioinspired Optimization Methods and their Applications (BIOMA-2018), Paris			
	(France), May 16-18, 2018; Lectures Notes in Computer Science (LNCS), Springer; 10835:1–13, ISBN:			
	978-3-642-25724-7 (Print), doi: https://doi.org/10.1007/978-3-319-91641-5_10			
7	S. Dutta and D. Datta [*] (2011). A binary-real-coded differential evolution for unit commitment problem:	02		
	A preliminary study. Lecture Notes in Artificial Intelligence (LNAI), Springer; 7080/2011:406–417, ISBN:			
	9783-642-25724-7, (Print), doi: http://dx.doi.org/10.1007/978-3-642-25725-4_36			
6	M. Ghosh, B.K. Tiwary and D. Datta [*] (2011). Optimizing state probabilities of biological systems: a	-		
	preliminary study. In: Advanced Computing, Applications, Databases and Networks; Narosa Publishing			
	House, India; ISBN: 978-81-8487-109-8; 18–24.	0.4		
5	D. Datta [*] and J.K. Figueira (2010). A real-integer-discrete-coded differential evolution algorithm: A	04		
	preliminary study. In: Lecture Notes in Computer Science (LNCS), Springer; 6022/2010:35–46, ISBN:			
	978-3-642-12138-8 (Print), doi: http:/dx.doi.org/10.1007/978-3-642-12139-5_4	1.4		
4	D. Datta [*] and A.K. Das (2010). <i>Juning process parameters of electrochemical machine</i>	14		
	ing using a multi-objective genetic algorithm: A preliminary study. In: Lecture Notes in			
	Computer Science (LNCS), Springer, 6437/2010:485-493, ISBN: 978-3-642-17297-7 (Print), doi:			
2	nttp:/ax.aoi.org/10.100//9/0-3-042-1/290-4.52.	16		
10	D. Datta, S.H. Figuelia, C.W. FOISecta and F. Tavates-referia (2006). Graph partition-	10		
	ing enough a main-objective collationary augoration. A preliminary statig. Genetic and evo-			
	Turbinary computation ($GECCC-2000$), Atlanta (GSA), $023-032$, $ISDN: 976-1-00036-130-9$, doi: $http://dx.doi.org/10.1145/1380025.1380220$			
L	ncop.//ax.aoi.org/10.1140/1000000.1000222			

Continued on the next page...

SN	N Publication detail			
2	D. Datta [*] , K. Deb and C.M. Fonseca (2007). Multi-objective evolutionary algorithm	31		
	for university class timetabling problem. In: Evolutionary Scheduling, Studies in Com-			
	putational Intelligence; Springer; 49/2007:197–236, ISBN: 978-3-540-48582-7 (Print), doi:			
	http://dx.doi.org/10.1007/978-3-540-48584-1_8			
1	D. Datta*, K. Deb and C.M. Fonseca (2007). Multi-objective evolutionary algorithms for resource	19		
	allocation problems. In: Lecture Notes in Computer Science (LNCS), Springer; 4403/2007:401-416,			
	ISBN: 978-3-540-70927-5 (Print), doi: http://dx.doi.org/10.1007/978-3-540-70928-2_32			

20. Publications in International Conferences

SN	Publication detail	Citation		
15	A. Deka and D. Datta (2017). A comparative investigation of annular fins of different profiles using	—		
	multi-objective genetic algorithm. IEEE International Conference on Advances in Mechanical, Industrial,			
	Automation and Management Systems (AMIAMS-2017), MNNIT Allahabad, India. 3-5 February 2017,			
	doi: http://dx.doi.org/10.1109/AMIAMS.2017.8069192			
14	P. Dutta and D. Datta (2017). Bilevel problem as a plain multi-objective optimization problem: A	_		
	preliminary study. IEEE International Conference on Advances in Mechanical, Industrial, Automa-			
	tion and Management Systems (AMIAMS-2017), MNNIT Allahabad, India. 3-5 February 2017, doi:			
	http://dx.doi.org/10.1109/AMIAMS.2017.8069191			
13	Z. Kalita and D. Datta (2017). Multi-objective optimization of the multi-floor facility layout	_		
	problem. IEEE International Conference on Advances in Mechanical, Industrial, Automation			
	and Management Systems (AMIAMS-2017) MNNIT Allahabad India 3-5 February 2017 doi:			
	http://dy.doi.org/10.1109/AMTAMS.2017.806190			
12	D Deka and D Datta (2017) Operational cost minimization in heat exchanger network under			
12	mile faulting IEEE International Conference on Advances in Mechanical Industrial Automation			
	muk jouring. IEEE International Conference on Advances in Mechanical, Industrial, Automation			
	and Management Systems (AMIAMS-2017), MNNIT Allahabad, India. 3-5 February 2017, doi:			
11	DUSTAINER DI DETA MARKES 2017 0005105 IL LR Figueira S Datro and CT Scarpin			
111	(2016) An antimized annual for location of amin ailes in Drail through a multi abierties annual	_		
	(2010). An optimized approach for location of grant sites in Brazil litrough a main-objective generic			
	algorithm. A VIII-th Latin-Iberoamerican Conference on Operations Research (CLAIO-2016), Santiago,			
10	Unite, pages 897-904.			
10	M. I.A. Steiner, P.J. Steiner Neto, D. Datta, J.R. Figueira and C.I. Scarpin (2016). <i>Territorial parti-</i>	_		
	tioning problem applied to Brazil healthcare system using a multi-objective approach. XVIII-th Latin-			
	Iberoamerican Conference on Operations Research (CLAIO-2016), Santiago, Chile, pages 890-896.			
9	J.R. Figueira [*] , M.T.A. Steiner, D. Datta , P.J. Steiner Neto and C.T. Scarpin (2015). <i>Multi-objective</i>	—		
	optimization in partitioning the healthcare system of Parana State in Brazil. 28th Conference of the			
	European Chapter on Combinatorial Optimization (ECCO XXVIII), Catania, Italy, 60 (Abstract).			
8	M.T.A. Steiner*, D. Datta , P.J. Steiner Neto, C.T. Scarpin and J.R. Figueira (2014). <i>Multi-objective</i>	-		
	optimization in the partitioning healthcare system of Parana State, Brazil. 20th Conference of the			
	International Federation of Operational Research Societies (INFORS), Barcelona, 33 (Abstract).			
7	P.K. Nath*, A.C. Paul and D. Datta (2012). Hardware/software partitioning of embedded systems	—		
	using a binary version of particle swarm optimization. International Conference on Computer Science			
	and Engineering (CSE-2012), Guwahati (India).			
6	P.K. Nath*, D. Datta and A.C. Paul (2012). Hardware-software codesign of embedded system using a	-		
	binary version of genetic algorithm – a case study on JPEG encoder using a metaheuristic approach.			
	International Joint Conference on Emerging Intelligent Sustainable Technologies (EISTCON-2012), Ban-			
	galore (India), pages 19–25.			
5	A.K. Das* and D. Datta (2010). Optimization of process parameters of ultrasonic machining (USM)	-		
	using a genetic algorithm. All India Manufacturing Technology Design and Research (AIMTDR-2010).			
4	D. Datta*, J.R. Figueira and J. Malczewisk (2010). Aggregating census units with a multi-objective	-		
	genetic algorithm: Preliminary results of a case study in Canada. 24th European Conference on Oper-			
	ational Research (EURO-XXIV), Lisbon (Portugal), 98 (Abstract).			
3	J.R. Figueira* and D. Datta (2010). Graph partitioning by a real-coded multi-objective genetic algo-	-		
	rithm. 24th European Conference on Operational Research (EURO-XXIV), Lisbon (Portugal), 98 (Ab-			
	stract).			
2	D. Datta [*] and K. Deb (2005). Design of optimum cross-sections for load carrying members using	08		
	multi-objective evolutionary algorithms. International Conference on Systemics, Cybernetics and Infor-	-		
	matics (ICSCI-2005), Hyderabad (India), 571–577.			
1	D. Datta (2002). Sequential linear programming method using minimum number of gradients. 47th	01		
	Concress of the Indian Society of Theoretical and Applied Mechanics (ISTAM-2002) Guwahati (India)	<u> </u>		
	120–127.			
1				

21. Publications in National Conferences

SN Publication detail

SN	Publication detail	Citation		
4	A.K. Das and D. Datta [*] (2010). Maximizing the material removal rate in advanced machining processes	-		
	using a genetic algorithm: A preliminary study. 25th National Convention of Production Engineers and			
	National Seminar on Recent Developments in Manufacturing Technology, Agartala (India), 115–119.			
3	D. Datta [*] and J.R. Figueira (2008). Comparing performances of real-coded and integer-coded	-		
	multi-objective genetic algorithms. National Conference on Recent Advances in Mechanical Engineer-			
	ing (NCRAME), Silchar (India), 39–44.			
2	D. Datta [*] and J.R. Figueira (2008). Improving the performance of a multi-objective particle swarm	-		
	optimization: A preliminary study. National Conference on Recent Advances in Mechanical Engineer-			
	ing (NCRAME), Silchar (India), 176–181.			

Continued on the next page...

\mathbf{SN}	Publication detail	Citation
1	D. Datta*, K. Deb and C.M. Fonseca (2007). Solving class timetabling problem of IIT-Kanpur using	20
	multi-objective evolutionary algorithm. National Conference of Research Scholars in Mechanical Engi-	
	neering (NCRSME), Kanpur (India), 163–168. KanGAL Tech. Report No. 2006006 (2006), IIT - Kanpur.	

22. Invited Talk

SN	Title of Talk	Event/Location	Level	Date
11	Multi-Objective Optimization and Per-	AICTE-NEQIP sponsored FDP on Algorithms	National	30-Dec-2017
	formance Metrics	in Applications, Tezpur University		
10	Optimization and Annular Fin Design	AICTE-NEQIP sponsored FDP on Recent	National	14-Dec-2017
		Trends in Computational and Experimental		
		Mechanics, Tezpur University		
9	Optimization and Food Processing	AICTE-NEQIP sponsored FDP on Advances in	National	22-Nov-2017
		Food Processing Technologies, Tezpur Univer-		
		sity		
8	Combinatorial optimization	AICTE-NEQIP sponsored STC on Advances in	National	20-Jul-2015
		Mechanical Engineering and Industrial Appli-		
		cations, Tezpur University		
7	M-ary cardinal metrics for performance	QIP sponsored workshop on <i>Genetic algorithms</i>	National	31-Dec-2014
	measurement of multi-objective opti-	for engineering optimization, IIT Guwahati		
	mizers		NY 1	21 D 2014
6	Combinatorial optimization	QIP sponsored workshop on <i>Genetic algorithms</i>	National	31-Dec-2014
		for engineering optimization, III Guwanati	Mational	20 D = 0.014
o l	Real-coaea evolutionary algorithms	QIP sponsored workshop on <i>Genetic algorithms</i>	National	30-Dec-2014
4	Ontinaination tookainaa in an ain comina	FDD on Comment Americación, III Guwanali	National	16 Dec 2014
4	Optimization techniques in engineering	FDF on Current Approaches in Teaching and Research in Science and Technology School of	National	10-Dec-2014
	research	Engineering Tezpur University		
3	Design and process optimization in	National conference on Manufacturina: Vision	National	13-Oct-2013
ľ	manufacturina	for Future IIT Guwabati	rtationar	10 000 2010
2	Multi-objective metaheuristics for	Computational Intelligence Research Group	International	01-Jul-2009
_	araph partitioning problem and empiri-	(CA3). Centre of Technologies and Systems		
	cal metrics for comparing performances	(CTS) of UNINOVA, Lisbon, Portugal		
	of multi-objective metaheuristics			
1	Graph partitioning using evolutionary	Workshop on Speech and image signal process-	National	19-Dec-2008
	algorithms	ing, NIT Silchar		