

Committee:	National Committee for Information and Communication Sciences
Period covered:	1 Jan 2020 – 31 Dec 2024
Chair:	Professor Shazia Sadiq
Version and	DRAFT 7 February 2020 Chair approved

Purpose / context	<ol style="list-style-type: none"> 1. To connect the Academy to information and communication sciences practitioners, researchers, and scientists in Australia; 2. To link the Academy to Australian information and communication sciences societies in order to work together to promote the development of the discipline; 3. To link Australian science in the discipline to world science, in particular through the membership of appropriate international organisations; 4. To ensure that Australia has a voice and a role in the global development of the discipline; 5. To conduct discipline strategic planning and advocacy, provide strategic ICS policy advice to the Academy, as input to Academy science policy statements, and (with the approval of the Executive Committee of Council) to the Australian Government and Australian organisations. 6. To promote the national value and benefits of Information and Communication Sciences.
Description and objectives	<p><i>(Description, purpose and benefits of the National Committee)</i></p> <p>The NC for Information and Communication Sciences is a committee of the Council of the Australian Academy of Science. The broad aims of the committee are to foster Information and Communication Sciences in Australia, to link the Academy to scientists and practitioners in this area, and to relevant scientific and professional societies, and to serve as a link between Australian and overseas scientists.</p>
Coverage	<p><i>(To be informed by the report of the Review Committee, with others as necessary)</i></p> <p>Coverage includes the fields of research covered by the ANZSRC FOR codes 08 and areas in 09 related to communication sciences such as: Artificial intelligence, image processing, pattern recognition, machine learning, data mining, control systems, signal processing, computer science, electronics and electrical sciences, information theory, telecommunications, cyber security, blockchain, computer engineering, software engineering, robotics, sensor networks, networking, cyber-physical systems, data science and engineering, information systems, human centred computing, and interaction design.</p> <p>Given the pervasiveness of ICS, the scope of consideration for NCICS expands into application areas (Agritech, Medtech, Fintech, etc), enabling factors and barriers (innovation translation, education and training, ethics and privacy etc) and barriers.</p> <p>For a complete list see the Model Framework provided in “Preparing for</p>

	Australia's Digital Future: Sep 2019.
Linked international organisations	
Key connected organisations	<i>(List international unions, Australian scientific societies, other national committees, etc relevant to the NCICS)</i>
	<p>Links to other National Committees: Information and Communication technologies are so central to science today that this new National Committee could link to all National Committees. Closest link is with the National Committee for Data in Science (NCDiS) with cross-representation of chairs across both committees and synergies in the area of scientific data management and research data infrastructure.</p> <p>Australian Societies and Organisations: Computing, Research & Education (CORE), Australian Computer Society, Australian Telecommunications Society, Engineers Australia, Data61, Australian Information Industry Association (AIIA), Digital Transformation Agency, Australian Council for Deans in ICT (ACDICT) and Australian Council of Professors and Heads of Information Systems (ACPHIS).</p> <p>This committee works closely with the Australian Academy of Technology and Engineering particularly in the area of Digital Futures.</p> <p>International Organisations:</p> <ul style="list-style-type: none"> • International Telecommunications Union (ITU) • Association for Computing Machinery (ACM) • Institute of Electrical and Electronics Engineers (IEEE) • Association for Information Systems (AIS) • Computing Research Association (CRA)
Key outcomes	<p><i>(Activities and projects. In addition, reference should be made to:</i></p> <ul style="list-style-type: none"> • <i>communication and interactions with various parties, with suggestions on how this can be done; and</i> • <i>obtaining resources to assist with outcomes and with international subscriptions.</i> <p><i>Please refer to the report of the Review Committee.)</i></p> <ol style="list-style-type: none"> 1. Approved committees structure and membership (annual); 2. Approved annual report (annual); 3. Engagement with Australian Information and Communication Science researchers and professionals by contributing news items to society publications, and seeking opportunities to discuss NC activities at general meetings of the societies; 4. Engagement with relevant Australian societies and organisations, including inviting representatives of relevant societies as observers to NC meetings, and seeking opportunities to provide a regular

	<p>statement on NC activities to such organisations;</p> <p>5. Engagement with relevant national committees on issues of common interest;</p> <p>6. Engagement with the Chief Scientist and ARCom about ensuring that Information and Communication Sciences form part of the STEM strategy for the nation;</p> <p>7. Engagement with international organisations, including nomination of members of ITU committees;</p> <p>8. Identification of nominees for the John Booker Medal in Engineering Science (annual);</p>
	<p>9. Work towards establishing a Decade Plan in the area of Information and Communication Sciences;</p> <p>10. Obtaining financial and other resources to assist in the delivery of its activities, including contributions to the Australian subscriptions to International Organisations.</p>
Indicative budget	<p><i>(\$3000 provided per annum. Include all other activities.)</i></p> <ol style="list-style-type: none"> 1. \$3000 per annum for meetings provided by AAS (in FY 2019/20 – 2020/21 TBC) 2. Up to \$2500 per annum to support attendance at internal meetings of linked international organizations.