IT & Communication

MC

通信规划设计知识服务平台

IT & Communication (MC) is a comprehensive collection of professional and authoritative resources designed to provide enterprises and industry professionals with information solutions and access to the latest research and innovations in the field. The platform provides abundant material on related topics, pulling data from key CNKI resource collections such as academic journals, dissertations, conference proceedings, newspapers, standards, patents, yearbooks, laws and regulations, and reference works.

MC incorporates the latest in digital technologies to present a wealth of data in an intuitive environment that promotes high-quality research discovery. With dynamic push modules, MC features the latest industry publications and latest content concerning hot topics such as 5G, big data, the Internet of Things, cloud computing, smart homes, cities, campuses, transportation, and logistics, and intelligent manufacturing. MC also features related information on corporate marketing, human resources, finance, as well as industry-related cases, policies and interpretations, applications, conditions, and technical guidance.

MC features a massive amount of resources, including:

- **Academic Journals:** since 1960, 6,357 titles, 1,736 of which are core journals
- **PhD Dissertations/Master's Theses:** since 1984, 215 PhD training units, 489 master's training units
- **Conference Proceedings:** since 1964, papers from international and domestic academic conferences sponsored by more than 120 units across the country
- **Authoritative newspapers:** since 2000, 553 prefecture-level and above
- **Standards:** since 1980, authoritative and mandatory technical specifications
- **Patents:** since 1970, science and technology inventions and achievements of 35 provincial and ministerial industries, as well as overseas patents
- **Technological Achievements:** since 1978, scientific research results of various research units
- **Industry Yearbooks:** since 1949, annual developments, achievements, etc.
- **Laws and Regulations:** since 1949, authoritative and comprehensive policies and decrees by the National People's Congress, Ministry of Industry and Information Technology of the State Council, etc.
- **Reference Books:** accurate, professional and authoritative reference materials

MC at a Glance

Language:	Chinese
Interface:	Chinese
Abstracts:	English + Chinese
Archive:	1949-present
Updates:	Continuous
Data Format:	Full text
Producer:	Tongfang Knowledge Network Ltd. (TKN)
Platform:	CNKI

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Content

Content in MC covers a wide range of topics, including:

- **Industry Concerns:** Strategy and planning (national strategy, industry planning, etc.), policies and regulations, industry concerns (integration of informatization and industrialization, information security, etc.), technology frontier (5G, cloud computing, Internet of Things, Big Data, etc.)

- **Core Network:** Development trends, mobile core network, IMS, exchange technology (packet switching, optical switching, etc.)

- **Transmission:** Wireless transmission (5G, WIFI, microwave communication, etc.), wired transmission (SDH, DWDM, MSTP, hybrid fiber optic cable access network, etc.), satellite communication systems, etc.

- **Data Network:** Packet switching network, frame relay network, digital data network, IPV6, IPTV system, etc.; network management and monitoring

- **Communication Power System:** UPS system, battery, computer room air conditioner, dynamic ring monitoring system, energy saving, switching power supply systems, etc.

- **Building and Civil Engineering:** Data center, engine room, communication tower, base station, green building and energy-saving design, lightning protection grounding, etc.

- **Informatization:** Smart city, intelligent manufacturing (Industry 4.0), smart agriculture, smart grid, smart campus, smart logistics, smart security, smart transportation, Internet of vehicles, e-government, etc.

- **Marketing:** Market dynamics, company news, marketing strategy, etc.

- **Management:** Strategic management (development strategy, competition and cooperation, etc.), innovation management, internal control and risk management, human resource management, financial management, investment financing, legal affairs, etc.

Features and Functions

- **Advanced technology:** MC incorporates multiple elements of advanced technology to ensure ease of use and high-quality research results, including the latest technology in digital publishing, data processing, data storage and management, data discover, and data mining.

- **Push modules:** Select industry-focused hot topics, new technologies, and new policies are included in dynamic push modules, putting the very latest research and innovations front and center for the user.

- **Accurate research matching:** Keywords are matched with Chinese Library Classification Numbers, and supplemented with thematic codes, to provide accurate matching with relevant resources.

- **Unified search in both Chinese and English:** Enter Chinese keywords and match search results in various languages (mainly English, but also Russian, Japanese, Korean, and more), allowing users to uniformly monitor scientific research results of different countries and regions.

- **Knowledge networks and data visualization:** CNKI's Knowledge Network Node comprehensively reveals related and interconnected content resources, while measurement visualization and knowledge graph tools help users intuitively discover relevant research trends, authors and institutions.

China Research Gateway (CRG) presents the full spectrum of Chinese research, with exhaustive representation of STEM, social science, and humanities disciplines. Featuring an unparalleled breadth of sources, including scholarly journals, monographs, statistical publications, government documents, newspapers, dissertations, conference proceedings, patents, and many other content types, CRG offers a centralized means for discovery and access to this rich trove of research, specifically tailored to serve the needs of North American scholars and institutions.