



FOCUS:

INTELLIGENCE

The need for good intelligence has never been greater as adversaries are more diverse and important information topics are broader than ever. Traditional sources and collection methods have been supplemented by new ways of exploiting the massive amounts of data collected by commercial organizations, particularly social media. *SIGNAL* Magazine's September 2019 issue peels the lid off today's intelligence needs and methodologies.

- A high-level perspective sheds light on Defense Intelligence Agency (DIA) activities.
- Dawn Meyerriecks, director of the Science and Technology Directorate at the CIA, gives a glimpse of the new technologies the agency needs to meet its latest challenges.
- The National Geospatial-Intelligence Agency is using new technologies such as artificial intelligence to revolutionize its tradecraft.
- The DIA's chief information security officer describes that agency's technology applications.
- The intelligence technology revolution is only just beginning.

SPECIAL REPORT:

BIOTECHNOLOGY

Living technology always has offered intriguing benefits, and now researchers are expanding its reach. Whether adapting capabilities from the biological world or exploiting human biology in new applications, biotechnology is applying lessons learned from nature to meet modern challenges. *SIGNAL*'s September issue looks at some of these applications and what may be in store for the future.

- DARPA's Next-Generation Nonsurgical Neurotechnology program aims for mind control of robotic, AI and cyber systems without brain implants.
- Innovative forms of biometrics are on tap for next-generation identification systems.
- Researchers at Purdue are developing systems to detect microbial pathogens.
- Scientists have developed a smart skin that could be a mechanical epidermis for a broad range of applications.

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SIGNAL MAGAZINE

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