Swarms 5.9.2 Release Notes

Major Features

Concurrent Agent Execution Suite

We're excited to introduce a comprehensive suite of agent execution methods to supercharge your multi-agent workflows:

- `run_agents_concurrently`: Execute multiple agents in parallel with optimal resource utilization
- `run_agents_concurrently_async`: Asynchronous execution for improved performance
- `run_single_agent`: Streamlined single agent execution
- `run_agents_concurrently_multiprocess`: Multi-process execution for CPU-intensive tasks
- `run_agents_sequentially`: Sequential execution with controlled flow
- `run_agents_with_different_tasks`: Assign different tasks to different agents
- `run_agent_with_timeout`: Time-bounded agent execution
- `run_agents_with_resource_monitoring`: Monitor and manage resource usage

Documentation

- Comprehensive documentation added for all new execution methods
- Updated examples and usage patterns
- Enhanced API reference

Improvements

- Tree swarm implementation fixes
- Workspace directory now automatically set to `agent workspace`

```
- Improved error handling and stability
## Quick Start
```python
from
 import
 Agent,
 run_agents_concurrently,
 run_agents_with_timeout,
 swarms
run_agents_with_different_tasks
Initialize multiple agents
agents = [
 Agent(
 agent_name=f"Analysis-Agent-{i}",
 system_prompt="You are a financial analysis expert",
 Ilm=model,
 max_loops=1
)
 for i in range(5)
]
Run agents concurrently
task = "Analyze the impact of rising interest rates on tech stocks"
outputs = run_agents_concurrently(agents, task)
Example with timeout
outputs_with_timeout = run_agents_with_timeout(
 agents=agents,
```

```
task=task,
 timeout=30.0,
 batch_size=2
)
Run different tasks
task_pairs = [
 (agents[0], "Analyze tech stocks"),
 (agents[1], "Analyze energy stocks"),
 (agents[2], "Analyze retail stocks")
]
different_outputs = run_agents_with_different_tasks(task_pairs)
Installation
```bash
pip3 install -U swarms
## Coming Soon
- Auto Swarm Builder: Automatically construct and configure entire swarms from a single task
specification (in development)
- Auto Prompt Generator for thousands of agents (in development)
## Community
We believe in the power of community-driven development. Help us make Swarms better!
```

- Star o	ur repository: h	nttps://github.com/ky	egomez/sv	varms			
- Fork th	ne project and	contribute your impr	rovements				
- Join o	ur growing con	mmunity of contribute	ors				
## Bug F	ixes						
- Fixed 7	ree Swarm im	plementation issues	5				
- Resolv	ed workspace	directory configurati	on problem	าร			
- General stability improvements							
For	detailed	documentation	and	examples,	visit	our	[GitHub
repository](https://github.com/kyegomez/swarms).							
Let's bui	ld the future of	f multi-agent system	s together!				